

User Guide

42" LED TV



NS-42E470A13



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CHILD SAFETY

It makes a difference how and where you use your flat panel display

As you enjoy your new product, keep these safety tips in mind

The issue

The home theater entertainment experience is a growing trend, and larger TVs are popular purchases. However, TVs are not always supported on the proper stands or installed according to the manufacturer's recommendations. We and the consumer electronics industry are committed to making home entertainment enjoyable and safe.

TVs that are inappropriately placed on dressers, bookcases, shelves, desks, speakers, chests, or carts may fall over and cause injury.

Tune into safety

- One size of TV stand does **not** fit all. Use only a TV stand rated for the weight of your TV.
- Carefully read and understand all enclosed instructions for proper use of this product.
- Don't let children climb on or play with entertainment system furniture and TVs.
- Don't place TVs on furniture that can easily be used as steps, such as a crate or chest of drawers.
- Remember that children can become excited while watching a program, especially on a "larger-than-life" TV. Make sure that you place or install the TV where it cannot be pushed, pulled over, or knocked down.
- Make sure that you route all cords and cables so that they cannot be pulled or grabbed by curious children.



Wall mounting

If you decide to wall mount your TV, always remember:

- One size of wall mount does **not** fit all. Use only a wall mount rated for the weight of your TV and that has been recommended by this TV manufacturer, listed in this manual, or otherwise listed by an independent laboratory as suitable for your TV.
- Follow all instructions supplied by the TV and wall mount manufacturers.
- If you have any doubts about your ability to safely wall mount your TV, get help from a professional installer.
- Make sure that the wall where you are mounting the TV is appropriate. Some wall mounts are not designed to be mounted to walls backed with steel studs or cinder blocks. If you are unsure, ask a professional installer.

TVs can be heavy. At least two people are required for safe wall mount installation.




Important Safety Instructions



This symbol indicates that dangerous voltage constituting a risk of electric shock is present within your TV. This label is located on the back of your TV.



This symbol indicates that there are important operating and maintenance instructions in the literature accompanying your TV.

- 1 Read these instructions.
- 2 Keep these instructions.
- 3 Heed all warnings.
- 4 Follow all instructions.
- 5 Do not use this apparatus near water.
- 6 Clean only with dry cloth.
- 7 Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
- 8 Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- 9 Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10 Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
- 11 Only use attachments/accessories specified by the manufacturer.
- 12 Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. 
- 13 Unplug this apparatus during lightning storms or when unused for long periods of time.
- 14 Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

53125A

- 15 The *wall plug* is the disconnecting device. The plug must remain readily operable.
- 16 An apparatus with three-prong, grounding-type plug is a Class I apparatus which needs to be grounded to prevent possible electric shock. Make sure that you connect the Class I apparatus to a grounding-type, three-prong outlet.
- 17 Remote control batteries should not be exposed to excessive heat such as sunshine, fire, or the like.
- 18 The apparatus should not be exposed to dripping or splashing and no objects filled with liquids, such as vases, should be placed on the apparatus.

WARNING

Electric shock hazard

To reduce the risk of fire or electric shock, do not remove any cover or expose the device to rain or moisture. No user-serviceable parts are inside. Refer servicing to qualified service technicians.

Lightning

For added protection for your device receiver during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the power outlet and disconnect any antenna or cable system. This helps prevent property damage and personal injury from lightning and power line surges.

Power lines

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can fall into such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits as contact with them might be fatal.

Handling the LCD panel

- Your TV's screen is made of glass. Do not drop your TV or hit, jolt, or press hard against the LCD panel. If the screen breaks, be careful of broken glass.
- If the LCD panel is broken, make absolutely sure that you do not touch the liquid in the panel. This may cause skin inflammation.
- If the liquid gets in your mouth, immediately gargle, rinse, and consult with your doctor. Also, if the liquid gets in your eyes or touches your skin, consult with your doctor after rinsing for at least 15 minutes or longer in clean water.

Replacement parts

When replacement parts are required, make sure that the service technician uses replacement parts specified by the manufacturer that have the same characteristics as the original part. Unauthorized substitutions may result in fire, electric shock, personal injury, or other hazards.

Safety check

After completing any service or repair to this device, ask the service technician to perform routine safety checks to determine that your TV is in correct operating condition.

Power source

Operate your TV only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult an electrician or your local power company.

Servicing

These servicing instructions are for use by qualified service personnel only. To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so.

CAUTION

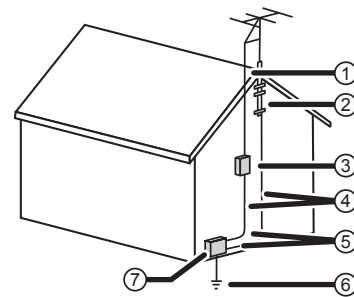
Damage requiring service

Unplug this TV from the power outlet and refer servicing to qualified service personnel under the following conditions:

- When the power supply cord or plug is damaged or frayed.
- If liquid has been spilled or objects have fallen into your TV.
- If your TV has been exposed to rain or water.
- If your TV does not operate normally by following the operating instructions. Adjust only those controls that are covered by the operating instructions because incorrect adjustment of other controls may result in damage and will often require extensive work by a qualified technician to restore your TV to its normal operation.
- If your TV has been dropped or damaged in any way.
- When your TV exhibits a distinct change in performance.

Outdoor antenna grounding

If an outside antenna or cable system is connected to your TV, make sure that the antenna or cable system is grounded to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA No. 70, provides information with respect to correct grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of the antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- ① Antenna lead-in wire
- ② Grounding clamp
- ③ Antenna discharge unit
- ④ Grounding conductors
- ⑤ Ground clamps
- ⑥ Power service grounding electrode system
- ⑦ Electric service equipment

Note to CATV system installer

Article 820 of the National Electrical Code, ANSI/NFPA No. 40 provides guidance for correct grounding. Specifically, it states that the cable ground must be connected to the grounding system of the building as close to the point of cable entry as practical.

Condensation

Moisture will form on the TV if the TV is brought from cool surroundings into a warm room or if the temperature of the room rises suddenly. When this happens, the TV's performance may be impaired. To prevent this, let the TV stand in its new surroundings for about an hour before switching it on, or make sure that the room temperature rises gradually.

Condensation may also form during the summer if the TV is exposed to the breeze from an air conditioner. In such cases, change the location of the TV.

Mobile telephone warning

To avoid interference with your TV picture and sound, operating problems, or even damage, keep your cordless and cellular telephones away from the TV.

End of life directives

Your TV contains tin-lead solder and a fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated for environmental reasons. Your TV also contains material that can be recycled and reused. For disposal or recycling information, contact your local authorities to find a recycler in your area.

Non-active pixels

The LCD panel contains almost 3 million thin film transistors, which provide exceptionally sharp video quality. Occasionally, a few non-active pixels may appear on the screen as a fixed blue, green, or red point. These non-active pixels do not adversely affect the performance of your TV, and are not considered defects.

Insignia 42" 1080p LED TV

Introduction

Congratulations on your purchase of a high-quality Insignia product. Your NS-42E470A13 represents the state of the art in LED TV design and is designed for reliable and trouble-free performance.

INlink:

Enjoy the benefit of having HDMI CEC compatible products plug and play! No setup is needed! CEC technology lets different components discover and communicate with each other. (See page 45 for instructions on how to use INlink.)

Insignia Motion 120Hz:

With a 120 Hz screen refresh rate twice the rate of a 60 Hz screen, a screen with 1,080 lines of resolution (up from 720 lines in the last generation of HDTVs), and special motion-detection technology, you will be experiencing a picture with clearer detail and brightness, smoother transitions, and reduced motion blurring, particularly when watching fast-motion sports and action scenes. (See page 29 for instructions on how to adjust the TV picture.)

Game mode:

Video games generally require adjustments to the television picture settings to get the maximum experience. By simply pressing a button on your remote control, your television settings will automatically adjust for video games. It couldn't be easier. (See page 29 for instruction on how to turn Game Mode on and off.)

Installing the stand or wall-mount bracket

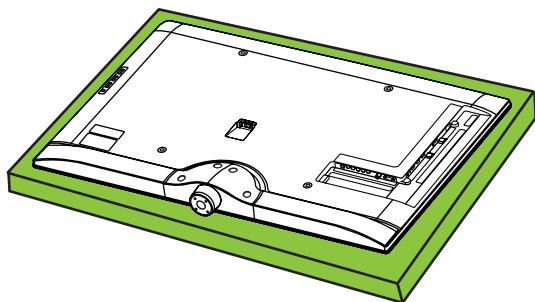
Notes

- If you plan to wall-mount your TV, do not install the stand.
- Store the stand and stand screws in case you decide to use the stand in the future.

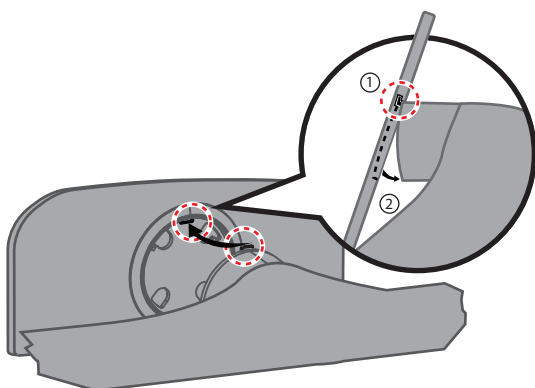
Installing the stand

To install the stand:

- 1 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.

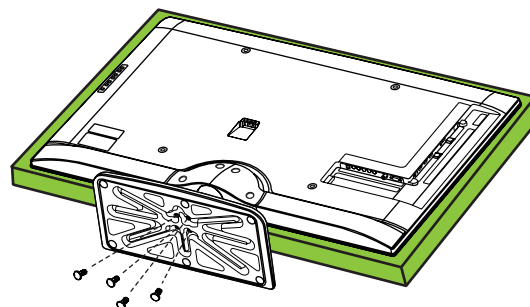


- 2 Hook the slot in the base onto the tab on the stand column, then push the base into place.



- 3 Secure the base to the stand column with the four short screws (provided).

Screw type	Screw length	# of screws
M4	12 mm	4



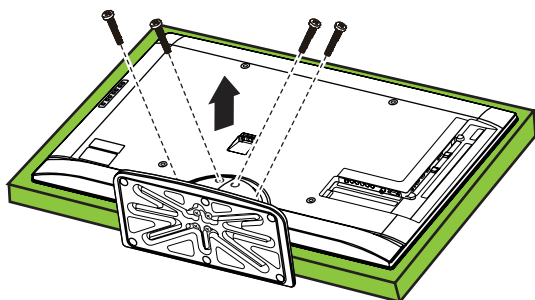
Installing a wall-mount bracket

Warning

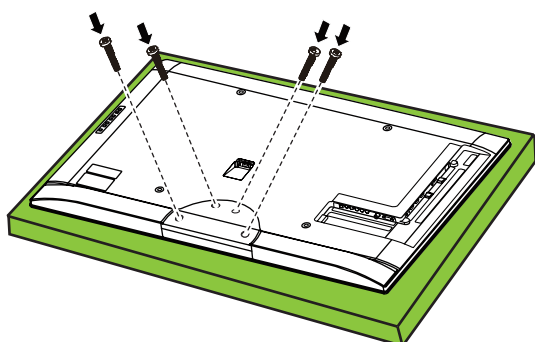
This TV is intended to be supported by a UL Listed wall mount bracket with suitable weight/load. (See "Miscellaneous" on page 53.)

To attach your TV to a wall-mount bracket:

- 1 Carefully place your TV screen face-down on a cushioned, clean surface to protect the screen from damages and scratches.
- 2 Remove the four screws that secure the stand column to the TV screen, then remove the stand.



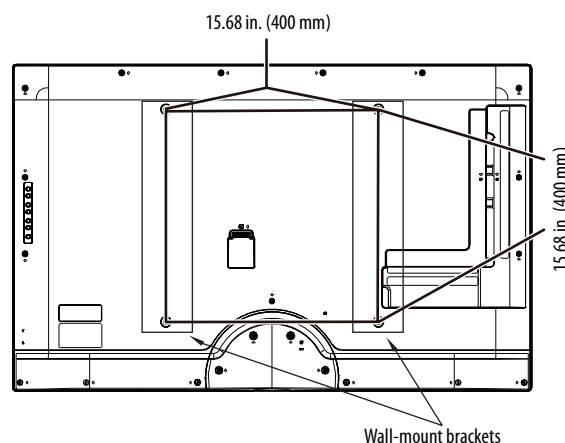
- 3 Secure the stand cover to the back of the TV screen using the four screws you just removed.



- 4 Attach the wall-mount bracket to your TV using the mounting holes on the back of your TV. See the instructions that came with the wall-mount bracket for information about how to correctly hang your TV.

Note

- The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.
- The mounting holes on the back of your TV take type M6 screws.

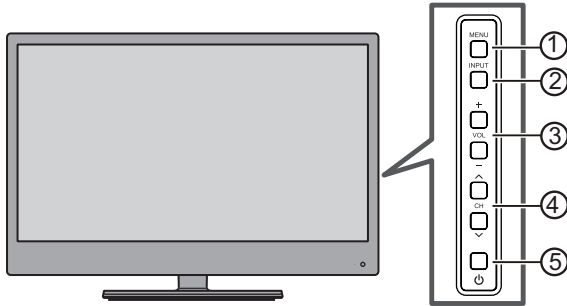


TV components

Package contents

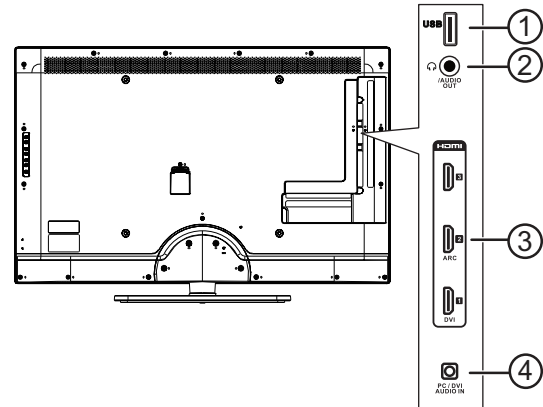
- Remote control and batteries (2 AAA)
- Stand base and screws (4)
- Stand cover
- Power cord
- *Quick Setup Guide*
- *Important Information*

Front



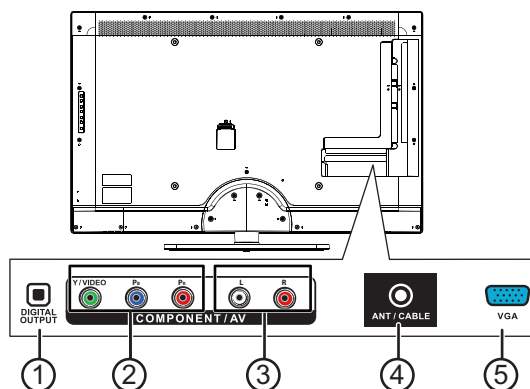
#	Item	Description
①	MENU	Press to open the on-screen menu. For more information, see "Navigating the menus" on page 27.
②	INPUT	Press to open the <i>INPUT SOURCE</i> list, press CH ▲ or CH ▼ to select a video input source, then press INPUT again. For more information, see "Selecting the video input source" on page 26. In menu mode, press to confirm selections.
③	VOL+/VOL-	Press to increase or decrease the volume.
④	CH ▲/CH ▼	Press to go to the next or previous channel in the channel list. For more information, see "Selecting a channel" on page 28.
⑤	⏻/POWER	Press to turn your TV on or off (standby mode). When your TV is off, power still flows through it. To completely disconnect power, unplug the power cord.

Side



#	Item	Description
①	USB	Connect a USB flash drive to this jack to view compatible JPEG picture files. For more information, see "Connecting a USB flash drive" on page 20 and "Using a USB flash drive" on page 47.
②	⌂/AUDIO OUT	Connect headphones, an analog audio amplifier, a home theater system, or a sound bar to this jack. For more information, see "Using analog audio" on page 22.
③	HDMI 1/DVI HDMI 2/ARC HDMI 3	Connect HDMI devices to these jacks. For more information see "Using HDMI (best)" on page 13 or 16. Connect the video for a DVI device to the HDMI 1/DVI jack. For more information, see "Using DVI (same as HDMI but requires a sound connection)" on page 14 or 17. If you are connecting a home theater system using HDMI, connect it to the HDMI 2/ARC jack.
④	PC/DVI AUDIO IN	Connect the audio for a computer to this jack. For more information, see "Connecting a computer" on page 19. OR Connect the audio for a DVI device to the this jack. For more information, see "Using DVI (same as HDMI but requires a sound connection)" on page 14 or page 17.

Back



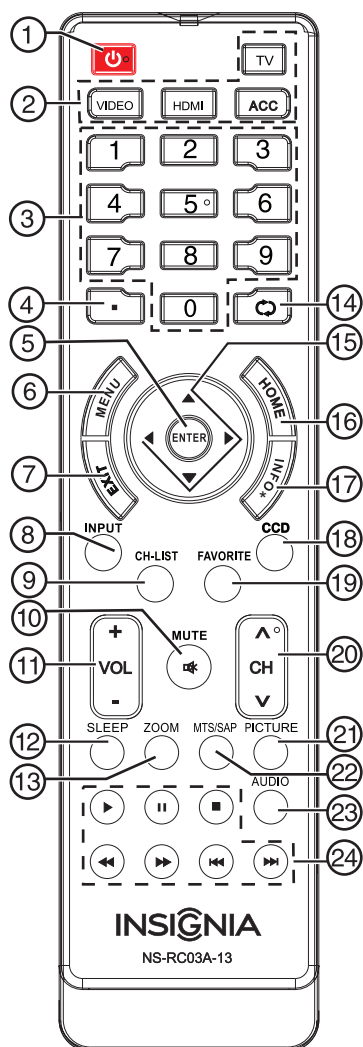
#	Item	Description
①	DIGITAL OUTPUT (optical)	Connect a digital audio amplifier or home theater system to this jack to listen to TV audio through the amplifier speakers. For more information, see "Using digital audio" on page 21.
②	COMPONENT IN Y/VIDEO, Pb, Pr OR AV Y/VIDEO	<p>The COMPONENT/AV Y/VIDEO jack works as one of the component video jacks or as a composite video jack. You can connect a component video device to the COMPONENT/AV Y/VIDEO, Pb, and Pr jacks or a composite video device to the COMPONENT/AV Y/VIDEO jack.</p> <p>Connect the video for a component video device to these jacks. For more information, see "Using component video (better)" on page 14 or 17.</p> <p>OR</p> <p>Connect the video for a composite video device to the COMPONENT/AV Y/VIDEO jack. For more information, see "Using composite video (good)" on page 15 or 18.</p> <p>These audio jacks provide the audio connection for a component video device connected to the COMPONENT/AV Y/VIDEO, Pb, and Pr video jacks or for a composite video device connected to the COMPONENT/AV Y/VIDEO jack.</p>
③	L and R (audio)	<p>Connect the audio for a component video device to these jacks. For more information, see "Using component video (better)" on page 14 or 17.</p> <p>OR</p> <p>Connect the audio for a composite video device to these jacks. For more information, see "Using composite video (good)" on page 15 or 18.</p>
④	ANT/CABLE	Connect an antenna or cable TV to this jack. For more information, see "Connecting an antenna or cable TV (no box)" on page 16.
⑤	VGA	Connect the video for a computer to this jack. For more information, see "Connecting a computer" on page 19.

Remote control

Your TV came with one of three remote controls. The remote control model number is on the bottom front of the remote control. Identify the remote control model number, then go to the appropriate section for information about your remote control.

- NS-RC03A-13 on page 9
- NS-RC05A-11 on page 10
- NS-RC01G-09 on page 11

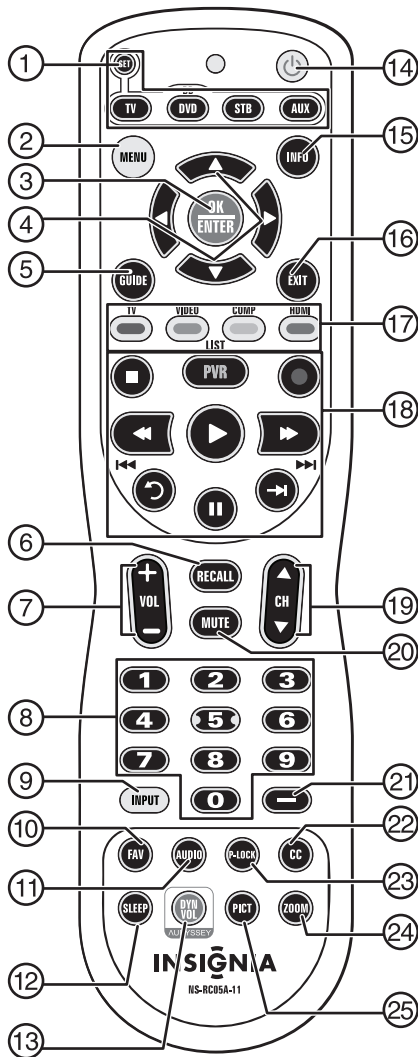
NS-RC03A-13



#	Button	Description
①	(power)	Press to turn your TV on or off (standby mode). When your TV is off, power still flows through it. To disconnect power, unplug the power cord.
②	Quick Launch Inputs	TV —Press to select your TV as the input source. VIDEO —Press to select the device connected to the COMPONENT/AV Y/VIDEO, Pb, and Pr jacks or the COMPONENT/AV Y/VIDEO jack. HDMI —Press one or more times to select the device connected to the HDMI 1, HDMI 2, or HDMI 3 jack. ACC —This button has no function.
③	Numbers	Press to enter channel numbers and the parental control password.
④		Press to enter a digital sub-channel number. For more information, see “Selecting a channel” on page 28.

#	Button	Description
⑤	ENTER	Press to confirm selections or changes.
⑥	MENU	Press to open the on-screen menu.
⑦	EXIT	Press to close the on-screen menu.
⑧	INPUT	Press to open the <i>Input Source</i> list, press ▲ or ▼ on the remote control to select the video input source, then press ENTER. For more information, see “Selecting the video input source” on page 26.
⑨	CH-LIST	Press to open the channel list.
⑩	/MUTE	Press to mute the sound. Press again to restore the sound.
⑪	VOL+/-	Press to increase or decrease the volume.
⑫	SLEEP	Press to set the sleep timer. You can select Off , 5 , 10 , 15 , 30 , 60 , 90 , 120 , 180 , or 240 minutes. For more information, see “Setting the sleep timer” on page 43.
⑬	ZOOM	Press to change how the picture looks on the screen (aspect ratio). For more information, see “Aspect ratio options” on page 29.
⑭	(recall)	In TV mode, press to return to the previous channel.
⑮	▲ ▼ ◀ ▶	Press to navigate in on-screen menus and to adjust settings.
⑯	HOME	Press to open the on-screen menu.
⑰	INFO	Press to display TV status information, such as the channel number, channel name (if available), or signal source. For more information, see “Viewing channel information” on page 28.
⑱	CCD	Press to turn closed captioning on or off. You can select CC Off , CC On , or CC On When Mute . For more information, see “Turning closed captioning on or off” on page 40.
⑲	FAVORITE	Press to open the <i>Favorite</i> channel list. For more information, see “Setting up a favorite channel list” on page 34 and “Viewing a favorite channel” on page 34.
⑳	CH ▲/CH ▼	Press to change TV channels. For more information, see “Selecting a channel” on page 28.
㉑	PICTURE	Press to select the picture mode. You can select Vivid , Standard , Energy Savings , Theater , Game , or Custom . For more information, see “Picture Mode” in “Adjusting the TV picture” on page 28.
㉒	MTS/SAP	Press to select the audio mode for an analog program. You can select: <ul style="list-style-type: none"> • MONO—Select this option if there is noise or static on weak stereo broadcasts. • STEREO—Select this option for programs broadcast in stereo. • SAP—Select this option to listen to a secondary audio program, if available.
㉓	AUDIO	Press to select the sound mode. You can select Standard , News , Music , Theater , or Custom . For more information, see “Sound Mode” in “Adjusting sound settings” on page 31.
㉔	INlink Controls	Press to control INlink-compatible (HDMI CEC) devices. For more information, see “Using INlink” on page 45.

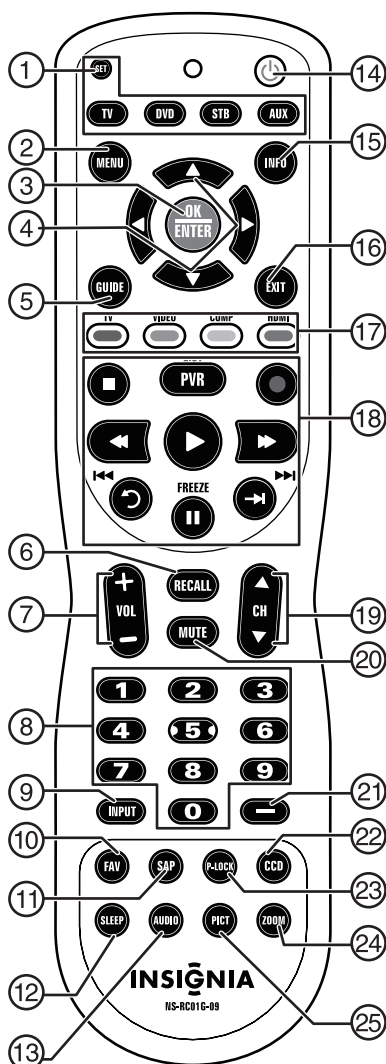
NS-RC05A-11



#	Item	Description
1	External device mode	Press to program the remote control to control connected devices. For more information, see "Programming your universal Insignia remote control" on page 54. <ul style="list-style-type: none"> You can program the following buttons: TV—To control a connected TV. BD/DVD—To control a connected Blu-ray or DVD player. STB—To control a connected set-top box. AUX—To control a connected device.
2	MENU	Press to open the on-screen menu.
3	OK/ENTER	Press to confirm selections or changes.
4	▲▼◀▶	Press to move up, down, left, or right in on-screen menus.
5	GUIDE	This button has no function.
6	RECALL	In TV mode, press to return to the previous channel.
7	VOL+/VOL-	Press to increase or decrease the volume.
8	Numbers	Press to enter channel numbers and the parental control password. When programming the remote control, press to enter device and programming codes.

#	Item	Description
9	INPUT	Press to open the <i>Input Source</i> list, press ▲ or ▼ on the remote control to select the video input source, then press OK/ENTER . For more information, see "Selecting the video input source" on page 26.
10	FAV	Press to open the <i>Favorite</i> channel list. For more information, see "Setting up a favorite channel list" on page 34 and "Viewing a favorite channel" on page 34.
11	AUDIO	Press to select the sound mode. You can select Standard , News , Music , Theater , or Custom . For more information, see "Sound Mode" in "Adjusting sound settings" on page 31.
12	SLEEP	Press to set the sleep timer. You can select Off , 5 , 10 , 15 , 30 , 60 , 90 , 120 , 180 , or 240 minutes. For more information, see "Setting the sleep timer" on page 43.
13	DYN VOL	This button has no function.
14	⏻ (power)	Press to turn your TV on or off (Standby mode). When your TV is off, power still flows into it. To disconnect power, unplug the power cord.
15	INFO	Press to display TV status information, such as the channel number, channel name (if available), or signal source. For more information, see "Viewing channel information" on page 28.
16	EXIT	Press to close the on-screen menu.
17	Quick Launch Inputs	TV —Press to select your TV as the input source. VIDEO —Press to select the device connected to the COMPONENT/AV Y/VIDEO jack. COMP —Press to select the device connected to the COMPONENT/AV Y/VIDEO , PB , and Pr jacks. HDMI —Press one or more times to select the device connected to the HDMI 1 , HDMI 2 , or HDMI 3 jack.
18	Media controls	Press to control INlink-compatible (HDMI CEC) devices. For more information, see "Using INlink" on page 45. You can also program the remote control so you can use these buttons to control other connected devices. For more information, see "Programming your universal Insignia remote control" on page 54.
19	CH ▲/CH ▼	Press to change TV channels. For more information, see "Selecting a channel" on page 28.
20	MUTE	Press to mute the sound. Press again to restore the sound.
21	—	Press to enter a digital sub-channel number. For more information, see "Selecting a channel" on page 28.
22	CC	Press to turn closed captioning on or off. You can select CC Off , CC On , or CC On When Mute . For more information, see "Turning closed captioning on or off" on page 40.
23	P-LOCK	If Parental Lock is turned on and you enter the correct password to unblock the channels, you can press P-LOCK to block the channels again.
24	ZOOM	Press to change how the picture looks on the screen (aspect ratio). For more information, see "Adjusting the TV picture" on page 28.
25	PICT	Press to select the picture mode. You can select Vivid , Standard , Energy Savings , Theater , Game , or Custom . For more information, see "Adjusting the TV picture" on page 28.

NS-RC01G-09






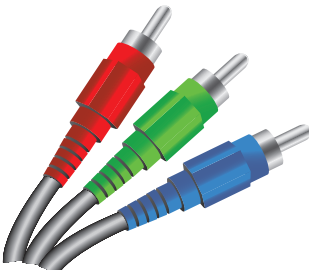

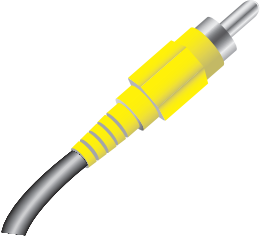


#	Item	Description
1	External device mode	Press to program the remote control to control connected devices. For more information, see "Programming your universal Insignia remote control" on page 54. <ul style="list-style-type: none"> You can program the following buttons: TV—To control a connected TV. DVD—To control a connected Blu-ray or DVD player. STB—To control a connected set-top box. AUX—To control a connected device.
2	MENU	Press to open the on-screen menu.
3	OK/ENTER	Press to confirm selections or changes.
4	▲▼◀▶	Press to move up, down, left, or right in on-screen menus.
5	GUIDE	This button has no function.
6	RECALL	In TV mode, press to return to the previous channel.
7	VOL+/VOL-	Press to increase or decrease the volume.
8	Numbers	Press to enter channel numbers and the parental control password. When programming the remote control, press to enter device and programming codes.

#	Item	Description
9	INPUT	Press to open the <i>Input Source</i> list, press ▲ or ▼ on the remote control to select the video input source, then press OK/ENTER . For more information, see "Selecting the video input source" on page 26.
10	FAV	Press to open the <i>Favorite</i> channel list. For more information, see "Setting up a favorite channel list" on page 34 and "Viewing a favorite channel" on page 34.
11	SAP	Press to select the audio mode for an analog program. You can select: <ul style="list-style-type: none"> MONO—Select this option if there is noise or static on weak stereo broadcasts. STEREO—Select this option for programs broadcast in stereo. SAP—Select this option to listen to a secondary audio program, if available.
12	SLEEP	Press to set the sleep timer. You can select Off , 5 , 10 , 15 , 30 , 60 , 90 , 120 , 180 , or 240 minutes. For more information, see "Setting the sleep timer" on page 43.
13	AUDIO	Press to select the sound mode. You can select Standard , News , Music , Theater , or Custom . For more information, see "Sound Mode" in "Adjusting sound settings" on page 31.
14	⏻ (power)	Press to turn your TV on or off (Standby mode). When your TV is off, power still flows into it. To disconnect power, unplug the power cord.
15	INFO	Press to display TV status information, such as the channel number, channel name (if available), or signal source. For more information, see "Viewing channel information" on page 28.
16	EXIT	Press to close the on-screen menu. <p>TV—Press to select your TV as the input source.</p> <p>VIDEO—Press to select the device connected to the COMPONENT/AV Y/VIDEO jack.</p> <p>COMP—Press to select the device connected to the COMPONENT/AV Y/VIDEO, Pb, and Pr jacks.</p> <p>HDMI—Press one or more times to select the device connected to the HDMI 1, HDMI 2, or HDMI 3 jack.</p>
17	Quick Launch Inputs	Press to control INlink-compatible (HDMI CEC) devices. For more information, see "Using INlink" on page 45.
18	Media controls	You can also program the remote control so you can use these buttons to control other connected devices. For more information, see "Programming your universal Insignia remote control" on page 54.
19	CH ▲/CH ▼	Press to change TV channels. For more information, see "Selecting a channel" on page 28.
20	MUTE	Press to mute the sound. Press again to restore the sound.
21	—	Press to enter a digital sub-channel number. For more information, see "Selecting a channel" on page 28.
22	CCD	Press to turn closed captioning on or off. You can select CC Off , CC On , or CC On When Mute . For more information, see "Turning closed captioning on or off" on page 40.
23	P-LOCK	If Parental Lock is turned on and you enter the correct password to unblock the channels, you can press P-LOCK to block the channels again.
24	ZOOM	Press to change how the picture looks on the screen (aspect ratio). For more information, see "Adjusting the TV picture" on page 28.
25	PICT	Press to select the picture mode. You can select Vivid , Standard , Energy Savings , Theater , Game , or Custom . For more information, see "Adjusting the TV picture" on page 28.

Making connections

What connection should I use?

Your TV has several connection types for connecting devices to your TV.
For the best video quality, you should connect a device to the best available connection.
Use the following tables to identify cables:

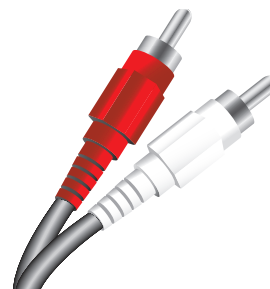
Connection type and jack	Video quality	Cable connector
HDMI video/audio 	Best (use this if your devices have HDMI)	
Component video (requires an audio connection) 	Better than composite or coaxial	
Composite video (requires an audio connection) 	Better than coaxial	
Coaxial video/audio 	Good	

Connection type and jack

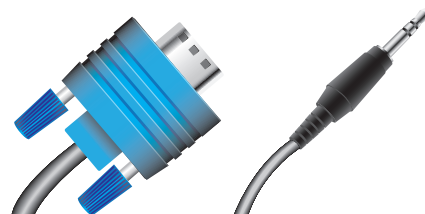
Optical digital audio (SPDIF)



Analog audio



VGA (computer) video and audio



You can use the **HDMI 1/DVI** jack on your TV to connect a DVI device to your TV. You need to attach an HDMI-to-DVI adapter to the end of the HDMI cable that connects to the DVI device.

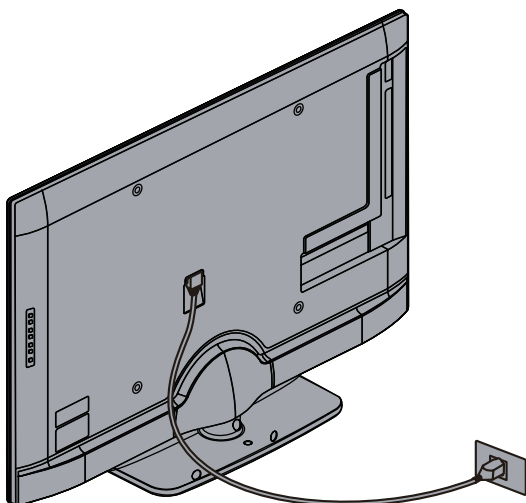
Cautions

- Check the jacks for position and type before making any connections.
- Loose connections can result in image or color problems. Make sure that all connections are tight and secure.
- The external audio/video equipment shown may be different from your equipment. If you have questions, refer to the documentation that came with your equipment.
- Always unplug the power cord when connecting external equipment.

Connecting power

To connect the power:

- Connect the AC power cord to the AC connector on the back of your TV, then plug the other end into a power outlet.



Cautions

- Your TV should only be operated from the power source indicated on the label.
- Always unplug the AC power cord from the power outlet when you will not be using your TV for an extended period of time.

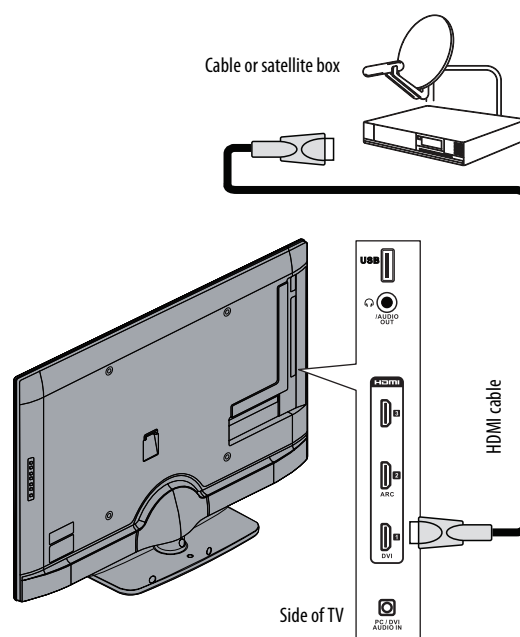
Connecting a cable or satellite box

Many cable or satellite TV boxes have more than one connection type. To get the best video, you should use the best connection type available. For more information, see [“What connection should I use?”](#) on page 12.

Using HDMI (best)

To connect a cable or satellite box using HDMI:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the cable or satellite box.



- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the Setup Wizard on page 24.

Note

An HDMI cable carries both audio and video. You do not need to use any audio cables.

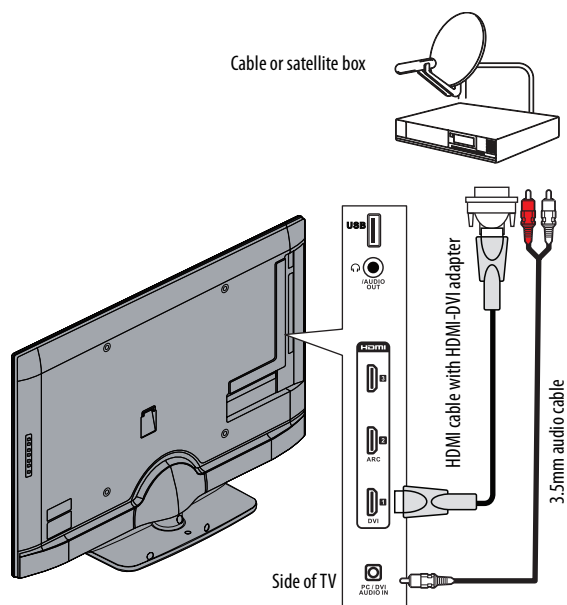
Using DVI (same as HDMI but requires a sound connection)

Note

You must use the **HDMI 1/DVI** jack to connect a cable or satellite box using DVI. If you use another **HDMI** jack, you will not hear sound.

To connect a cable or satellite box using DVI:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect the adapter to the **DVI OUT** jack on the cable or satellite box.
- 4 Connect the other end of the cable to the **HDMI 1/DVI** jack on the side of your TV.



- 5 Connect a 3.5mm audio cable (not provided) to the **PC/DVI AUDIO IN** jack on the side of your TV and to the **AUDIO OUT** jacks on the cable or satellite box.

Note

When you connect the audio using the **PC/DVI AUDIO IN** jack, the audio output is analog.

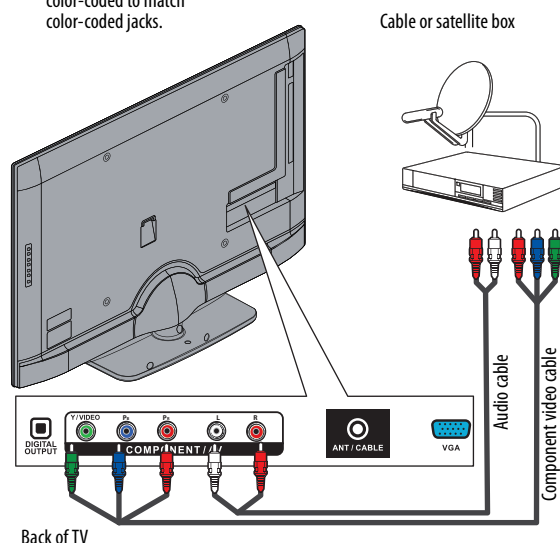
- 6 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 7 Go through the Setup Wizard on page [24](#).

Using component video (better)

To connect a cable or satellite box using component video:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect a component video cable (not provided) to the **COMPONENT/AV Y/VIDEO, Pb, and Pr** video jacks on the back of your TV and the component video out jacks on the cable or satellite box.

Cables are often color-coded to match color-coded jacks.



- 4 Connect an audio cable (not provided) to the **L** and **R** audio jacks on the back of your TV and to the audio out jacks on the cable or satellite TV box.

Note

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO, Pb, and Pr** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

- 5 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 6 Go through the Setup Wizard on page [24](#).

Using composite video (good)

To connect a cable or satellite box using composite video:

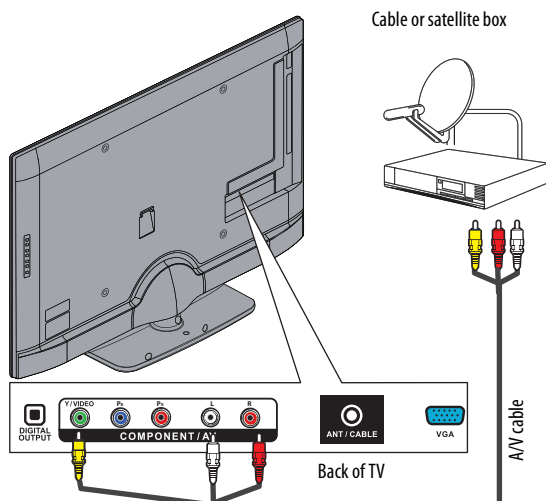
- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect an A/V cable (not provided) to the **COMPONENT/AV Y/VIDEO** jack and **L** and **R** audio jacks on the back of your TV and to the composite video and audio out jacks on the cable or satellite box.

Note

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO**, **PB**, and **PR** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

Cables are often color-coded to match color-coded jacks.

Note: The yellow video connector on the AV cable connects to the green **COMPONENT/AV Y/VIDEO** jack.

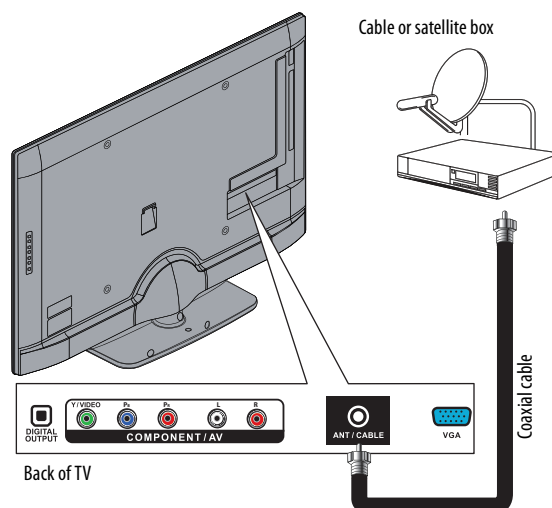


- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the Setup Wizard on page [24](#).

Using coaxial (good)

To connect a cable or satellite box using coaxial:

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect the incoming cable from the cable wall jack to the cable-in jack on the cable or satellite box.
- 3 Connect a coaxial cable (not provided) to the **ANT/CABLE** jack on the back of your TV and to the coaxial out jack on the cable or satellite box.



- 4 Plug your TV's power cord into a power outlet, turn on your TV, then turn on the cable or satellite box.
- 5 Go through the Setup Wizard on page [24](#).

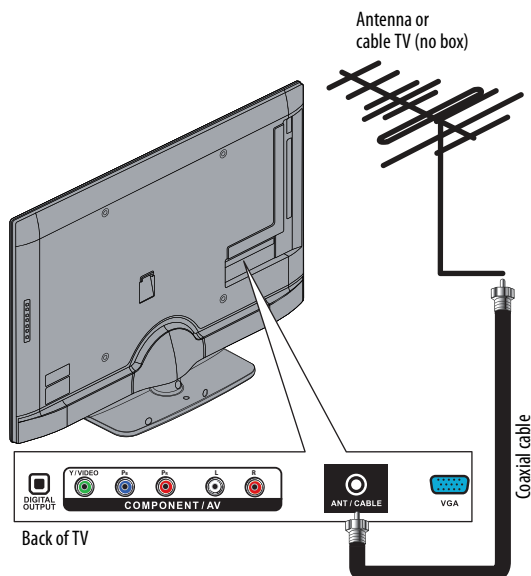
Notes

- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.

Connecting an antenna or cable TV (no box)

To connect an antenna or cable TV (no box):

- 1 Make sure that your TV's power cord is unplugged, and all connected equipment is turned off.
- 2 Connect a coaxial cable to the **ANT/CABLE** jack on the back of your TV and to the antenna or cable TV wall jack.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- 4 Go through the Setup Wizard on page 24.

Notes

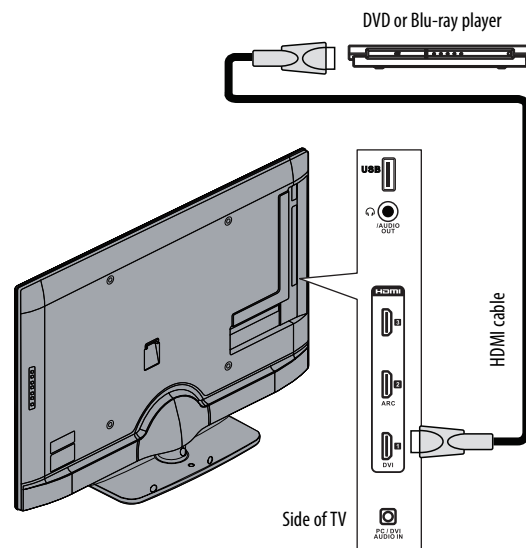
- Use a coaxial cable to eliminate interference and noise from radio waves.
- Do not bundle the coaxial cable with the power cord or other cables.
- If the antenna is not installed correctly, contact qualified service personnel to correct the problem.
- If the signal level for a channel is weak, the picture may be distorted. Adjust the antenna or use a highly directional outdoor or set-top antenna with a built-in amplifier.
- If the picture quality is good on some channels and poor on others, the problem may be caused by a poor or weak signal from the broadcaster or cable TV provider.
- If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.
- Many high-definition (HD) channels upscale standard-definition (SD) content. The picture displayed on your TV is still displayed as SD, thus the picture quality will not be as clear or crisp as it would be if the content was originally recorded in HD.

Connecting a DVD or Blu-ray player

Using HDMI (best)

To connect a DVD or Blu-ray player using HDMI:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the DVD or Blu-ray player.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- 4 Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 5 Press **INPUT** to open the *Input Source* list.
- 6 Press **▲** or **▼** to highlight **HDMI 1**, **HDMI 2**, or **HDMI 3**, then press **ENTER** or **OK/ENTER**.

Note

You can also press **HDMI** repeatedly to select the DVD or Blu-ray player.

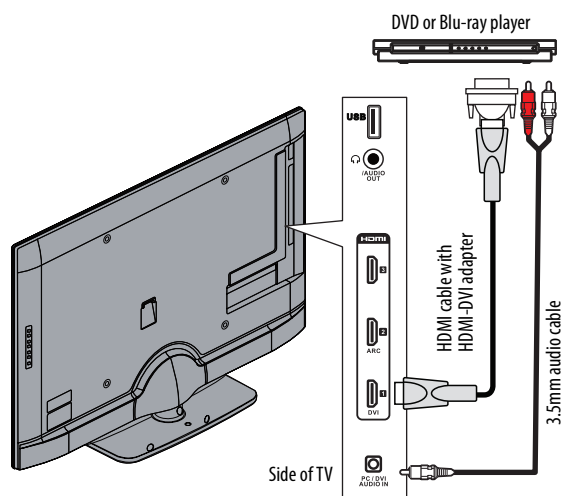
Using DVI (same as HDMI but requires a sound connection)

Note

You must use the **HDMI 1/DVI** jack to connect a DVD or Blu-ray player using DVI. If you use another **HDMI** jack, you will not hear sound from the TV speakers.

To connect a DVD or Blu-ray player using DVI:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an HDMI-DVI adapter (not provided) to one end of an HDMI cable (not provided), then connect the adapter to the **DVI OUT** jack on the DVD or Blu-ray player.
- 3 Connect the other end of the cable to the **HDMI 1/DVI** jack on the side of your TV.



- 4 Connect a 3.5mm audio cable (not provided) to the **PC/DVI AUDIO IN** jack on the side your TV and to the **AUDIO OUT** jacks on the DVD or Blu-ray player.
- 5 Plug your TV's power cord into a power outlet, then turn on your TV.
- 6 Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 7 Press **INPUT** to open the *Input Source* list.
- 8 Press **▲** or **▼** to select **HDMI 1**, then press **ENTER** or **OK/ENTER**.

Note

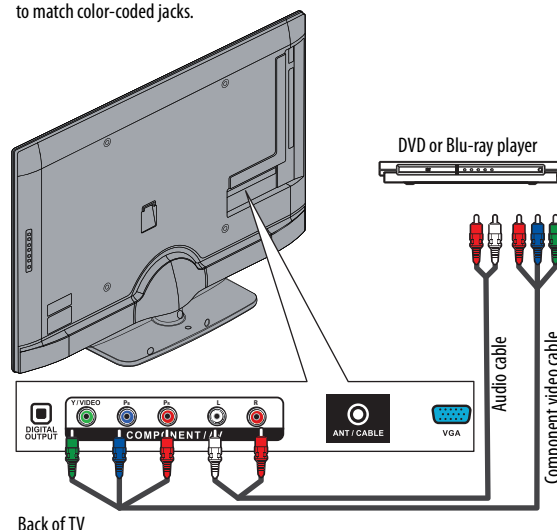
You can also press **HDMI** one or more times to select the DVD or Blu-ray player.

Using component video (better)

To connect a DVD or Blu-ray player using component video:

- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect a component video cable (not provided) to the **COMPONENT/AV Y/VIDEO, PB,** and **PR** jacks on the back of your TV and to the **COMPONENT OUT** jacks on the component video device.

Cables are often color-coded to match color-coded jacks.



- 3 Connect an audio cable to the **L** and **R** audio jacks on the back of your TV and to the **L/R AUDIO OUT** jacks on the DVD or Blu-ray player.

Notes

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO, PB,** and **PR** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

- 4 Plug your TV's power cord into a power outlet, then turn on your TV.
- 5 Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 6 Press **INPUT** to open the *Input Source* list.
- 7 Press **▲** or **▼** to select **Component/AV**, then press **ENTER** or **OK/ENTER**.

Note

You can also press **VIDEO** (remote control model NS-RC03A13) or **COMP** (remote control models NS-RC05A-11 and NS-RC01G-09) to select the DVD or Blu-ray player.

Using composite video (good)

To connect a DVD or Blu-ray player using composite video:

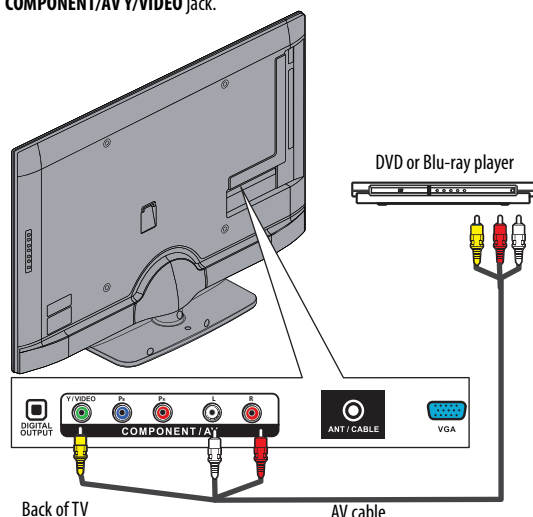
- 1 Make sure that your TV's power cord is unplugged and the DVD or Blu-ray player is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT/AV Y/Video** jack and **L** and **R** audio jacks on the back of your TV and to the **AV OUT** jacks on the DVD or Blu-ray player.

Note

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO**, **PB**, and **PR** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

Cables are often color-coded to match color-coded jacks.

Note: The yellow video connector on the AV cable connects to the green **COMPONENT/AV Y/VIDEO** jack.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- 4 Turn on the DVD or Blu-ray player, then set it to the correct output mode. For more information, see the documentation that came with the player.
- 5 Press **INPUT** to open the *Input Source* list.
- 6 Press **▲** or **▼** to select **Component/AV**, then press **ENTER** or **OK/ENTER**.

Notes

You can also press **VIDEO** to select the DVD or Blu-ray player.

Connecting a VCR

To connect a VCR:

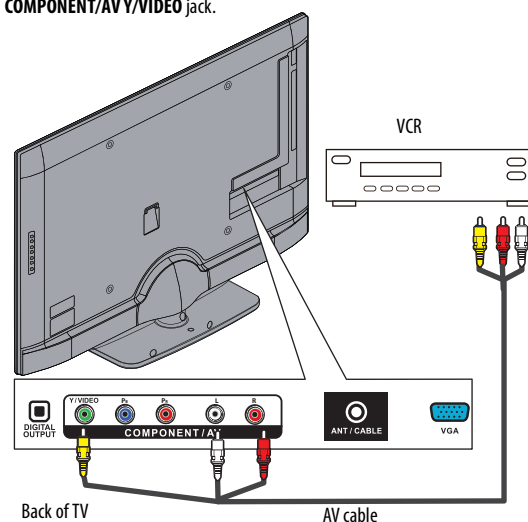
- 1 Make sure that your TV's power cord is unplugged and the VCR is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT/AV Y/VIDEO** and **L** and **R** audio jacks on the back of your TV and to the **AV OUT** jacks on the VCR.

Note

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO**, **PB**, and **PR** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

Cables are often color-coded to match color-coded jacks.

Note: The yellow video connector on the AV cable connects to the green **COMPONENT/AV Y/VIDEO** jack.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV and the VCR.
- 4 Press **INPUT** to open the *Input Source* list.
- 5 Press **▲** or **▼** to select **Component/AV**, then press **ENTER** or **OK/ENTER**.

Note

You can also press **VIDEO** to select the VCR.

- 6 Insert a videotape in the VCR, then press **PLAY** on the VCR.

Connecting a camcorder or game console

Note

If your camcorder or game console has an HDMI connection, we recommend that you use the HDMI connection to get the best quality possible.

To connect a camcorder or game console:

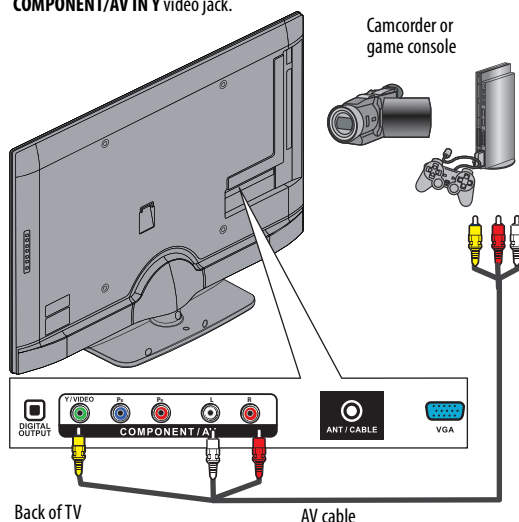
- 1 Make sure that your TV's power cord is unplugged and the camcorder or game console is turned off.
- 2 Connect an AV cable (not provided) to the **COMPONENT/AV Y/VIDEO** and **L** and **R** audio jacks on the back of your TV and to the **AV OUT** jacks on the camcorder or game console.

Note

- The **L** and **R** audio jacks provide the audio connection for a component video device connected to the **COMPONENT/AV Y/VIDEO**, **PB**, and **PR** video jacks or for a composite video device connected to the **COMPONENT/AV Y/VIDEO** jack.
- When you connect the audio using the **L** and **R** audio jacks, the audio output is analog.

Cables are often color-coded to match color-coded jacks.

Note: The yellow video connector on the AV cable connects to the green **COMPONENT/AV IN Y** video jack.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV.
- 4 Turn on the camcorder or game console, then set it to the correct output mode. For more information, see the documentation that came with the camcorder or game console.
- 5 Press **INPUT** to open the *Input Source* list.
- 6 Press **▲** or **▼** to select **Component/AV**, then press **ENTER** or **OK/ENTER**.

Notes

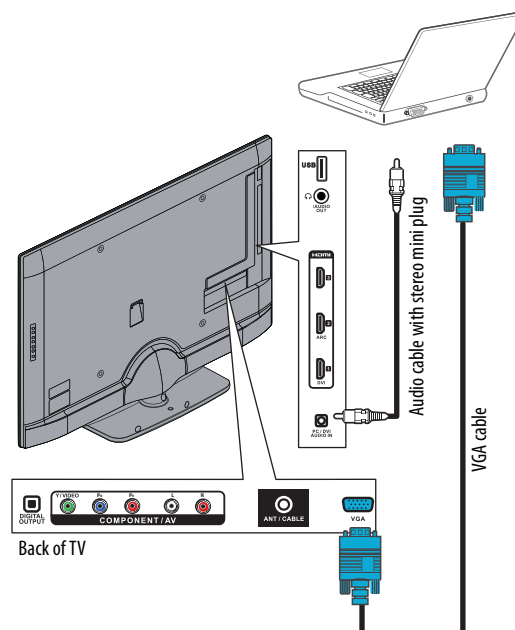
You can also press **VIDEO** to select the camcorder or game console.

Connecting a computer

Using VGA

To connect a computer using VGA:

- 1 Make sure that your TV's power cord is unplugged and the computer is turned off.
- 2 Connect a VGA cable (not provided) to the **VGA** jack on the back of your TV and to the **VGA** jack on the computer.

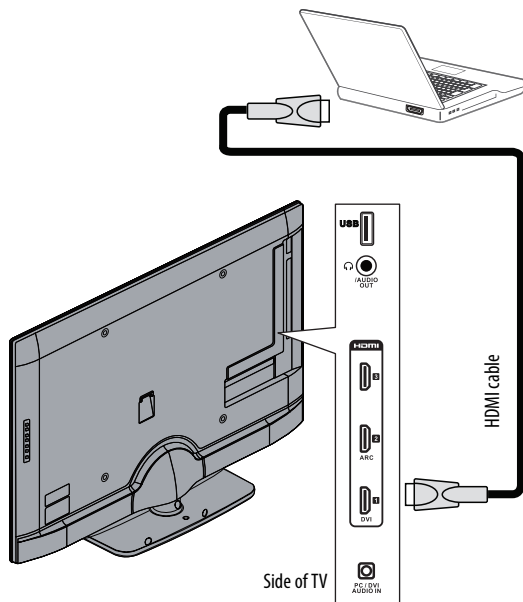


- 3 Connect an audio cable with a stereo mini plug (not included) to the **PC/DVI AUDIO IN** jack on the side of your TV and to the **AUDIO OUT** jack on the computer.
- 4 Plug your TV's power cord into a power outlet, turn on your TV and the computer.
- 5 Press **INPUT** to open the *Input Source* list.
- 6 Press **▲** or **▼** to select **VGA**, then press **ENTER** or **OK/ENTER**.
- 7 Adjust the display properties on the computer, if necessary.

Using HDMI

To connect a computer using HDMI:

- 1 Make sure that your TV's power cord is unplugged and the computer is turned off.
- 2 Connect an HDMI cable (not provided) to one of the **HDMI** jacks on the side of your TV and to the **HDMI OUT** jack on the computer.



- 3 Plug your TV's power cord into a power outlet, then turn on your TV and the computer.
- 4 Press **INPUT** to open the *Input Source* list.
- 5 Press **▲** or **▼** to highlight **HDMI1**, **HDMI2**, or **HDMI3**, then press **ENTER** or **OK/ENTER**.

Note

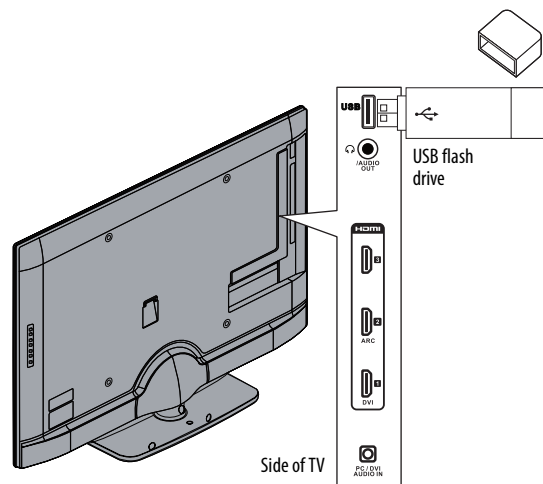
You can also press **HDMI** repeatedly to select the computer.

- 6 Adjust the display properties on the computer, if necessary.

Connecting a USB flash drive

To connect a USB flash drive:

- 1 Plug a USB flash drive into the **USB** port on the side of your TV.



Caution

Do not remove the USB flash drive or turn off the TV while using the USB flash drive. You may lose data or damage the USB flash drive.

- 2 Turn on your TV.
- 3 Press **INPUT** to open the *Input Source* list.
- 4 Press **▲** or **▼** to select **USB**, then press **ENTER** or **OK/ENTER**.

Note

The **Photos** viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV.

For more information, see "[Using a USB flash drive](#)" on page 47.

Connecting headphones

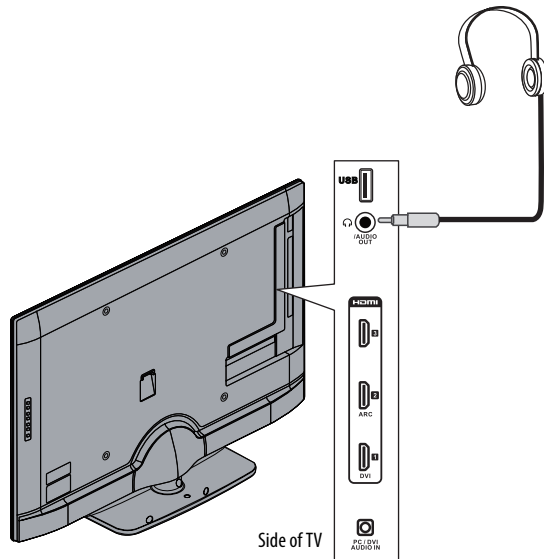
The TV speakers are muted when headphones are attached.

Warning

Loud noise can damage your hearing. When using headphones, use the lowest volume setting on your headphones that still lets you hear the sound.

To connect headphones:

- Connect the headphones to the **Ω (AUDIO OUT)** jack on the side of your TV.



Note

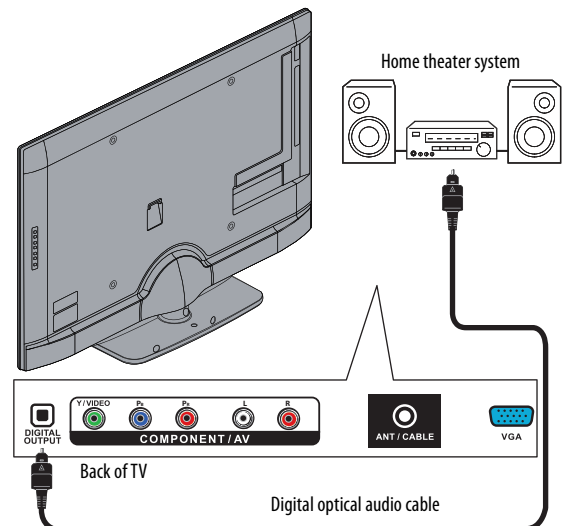
You can also connect an amplifier, home theater system, or sound bar to the **Ω (AUDIO OUT)** jack. If you want to connect an amplifier, home theater system, or sound bar, you need to disconnect the headphones.

Connecting a basic home theater system

Using digital audio

To connect a basic home theater system using digital audio:

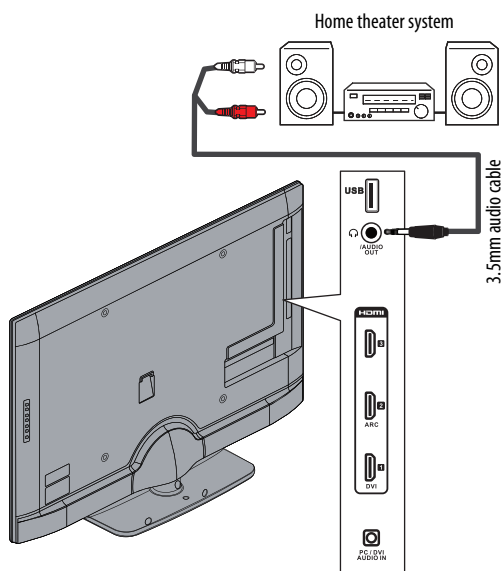
- 1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.
- 2 Connect a digital optical audio cable (not provided) to the **DIGITAL OUTPUT** jack on the back of your TV and to the optical **AUDIO IN** jack on the digital home theater system.



Using analog audio

To connect a home theater system using analog audio:

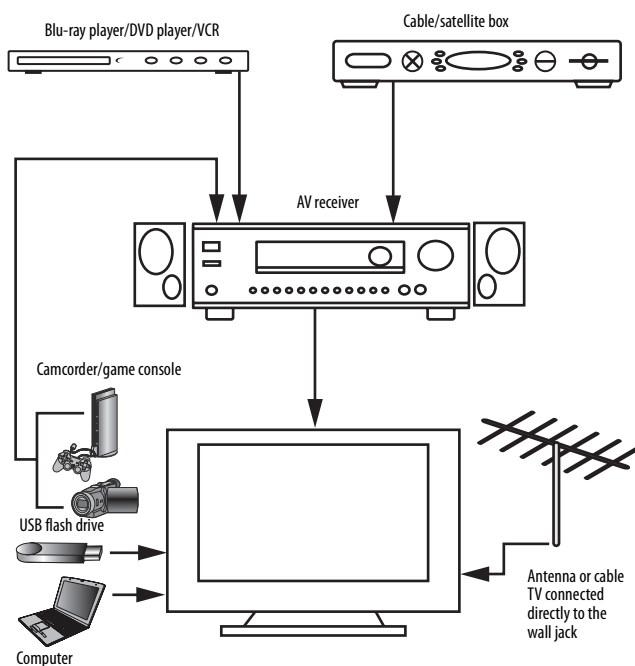
- 1 Make sure that your TV's power cord is unplugged and the home theater system is turned off.
- 2 Connect a 3.5mm audio cable (not provided) to the **(AUDIO OUT)** jack on the side of your TV and to the **AUDIO IN** jacks on the analog home theater system.



Note

You can connect headphones, an amplifier, a home theater system, or a sound bar to the **(AUDIO OUT)** jack. If you want to use headphones, you need to disconnect the amplifier, home theater system, or sound bar.

Connecting a home theater system with multiple devices



The connections you make depend on the video and audio jacks available on your devices. Refer to the documentation that came with your devices for connection information.

Just remember to use the best connection types available for the best picture and sound. For information about connection types, see "[What connection should I use?](#)" on page 12.

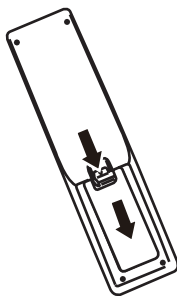
Using the remote control

Installing remote control batteries

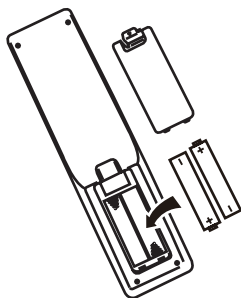
Remote control model NS-RC03A-13

To install remote control batteries:

- 1 While pressing the release latch on the back of the remote control, lift the battery compartment cover off the remote control.



- 2 Insert two AAA batteries into the battery compartment. Make sure that you match the + and – symbols on the batteries with the + and – symbols in the battery compartment.



- 3 Replace the battery compartment cover.

Cautions

- Batteries should not be exposed to excessive heat, such as sunshine, heat registers, or fire.
- Battery chemicals can cause a rash. If the batteries leak, clean the battery compartment with a cloth. If chemicals touch your skin, wash immediately.
- Make sure that batteries are disposed of correctly. Do not burn or incinerate.

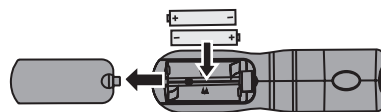
Notes

- Do not mix batteries of different types.
- Do not mix old and new batteries.
- Remove batteries when the charge is depleted.
- If the remote control is not going to be used for an extended period of time, remove the batteries.

Remote control models NS-RC05A-11 and NS-RC01G-09

To install the remote control batteries:

- 1 While pressing the release button on the battery compartment cover on the back of the remote, lift the cover off the remote.



- 2 Insert two AA batteries into the battery compartment. Make sure that the + and – symbols on the batteries align with the + and – symbols in the battery compartment.
- 3 Replace the cover.



Aiming the remote control

To aim the remote control:

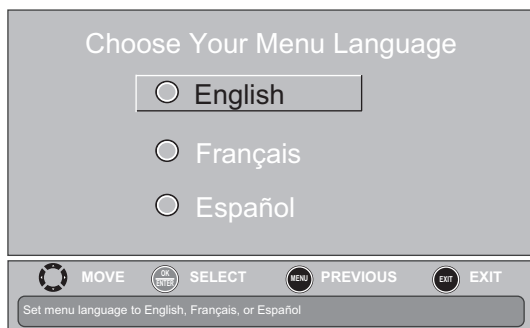
- Point the remote control towards the remote sensor on the front of your TV.

Turning on your TV for the first time

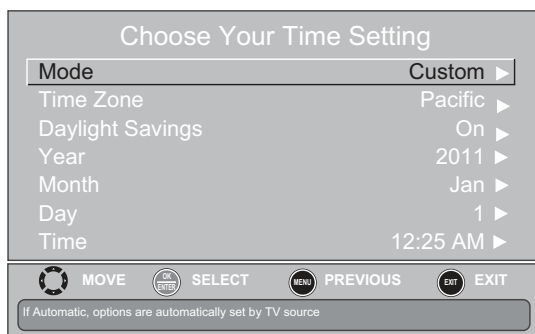
The first time you turn on your TV, the Setup Wizard opens. The Setup Wizard guides you through setting up basic settings including the menu language, time setting, picture mode, TV signal source, and the channel list.

To set up your TV:

- 1 Make sure that you have:
 - Installed the remote control batteries. (See page 23 for details).
 - Connected an antenna, cable TV, or satellite TV. (See page 13 through 16 for details.)
 - Connected the power cord. (See page 13 for details.)
- 2 Press **⏻** (power) to turn on your TV. The *Choose Your Menu Language* screen opens.



- 3 Press **▲** or **▼** to highlight the language you want, then press **ENTER** or **OK/ENTER**. The *Choose Your Time Setting* screen opens.

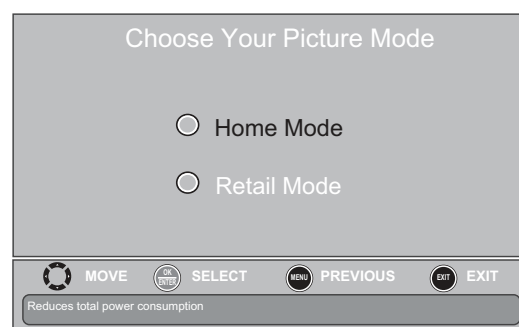


- 4 Press **▲** or **▼** to highlight **Mode**, then press **◀** or **▶** to select **Custom** (to set the date and time manually) or **Auto** (to set the date and time automatically from a TV signal source based on the time zone you select).

Note

If you select **Auto**, the displayed time will be incorrect until your TV gets the correct time from a TV signal source.

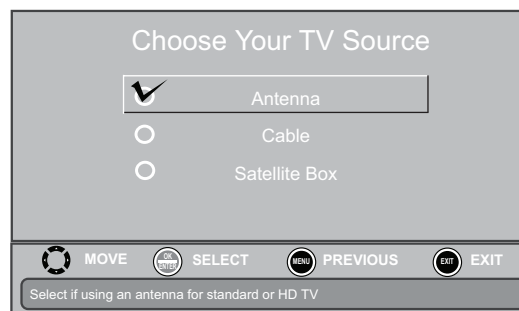
- 5 Press **▲** or **▼** to highlight **Time Zone**, then press **◀** or **▶** to select your time zone. You can select **Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic, or Newfoundland**.
- 6 Press **▲** or **▼** to highlight **Daylight Savings**, then press **◀** or **▶** to select **On** (if your viewing area observes Daylight Savings Time) or **Off** (if your viewing area does not observe Daylight Savings Time).
- 7 If you selected **Custom** for **Mode**, set the date by pressing **▲** or **▼** to highlight **Year, Month, or Day**, then pressing **◀** or **▶** to adjust the setting.
- 8 If you selected **Custom** for **Mode**, set the time by pressing **▲** or **▼** to highlight **Time**, then pressing **◀** or **▶** to select the hour, minute, or AM/PM field. Press **▲** or **▼** to adjust the setting.
- 9 Press **ENTER** or **OK/ENTER**. The *Choose Your Picture Mode* screen opens.



- 10 Press **▲** or **▼** to highlight **Home Mode** or **Retail Mode**, then press **ENTER** or **OK/ENTER**.

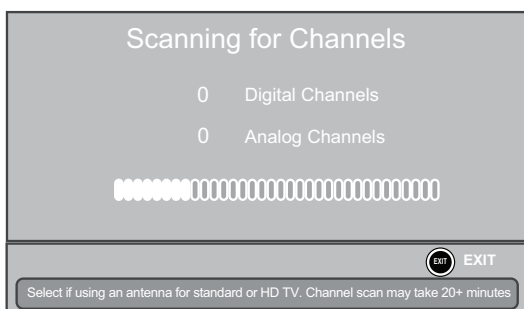
If you selected **Retail Mode**, the message "If you select Retail Mode, then Energy savings is not realized" appears. Select **Yes** to continue using **Retail Mode**, or select **No** to change your selection, then press **ENTER** or **OK/ENTER**.

The *Choose Your TV Source* screen opens.



- 11** Press **▲** or **▼** to highlight **Antenna, Cable,** or **Satellite Box**, then press **ENTER** or **OK/ENTER**.

A If you select **Antenna**, your TV scans for available channels. The scan may take several minutes.

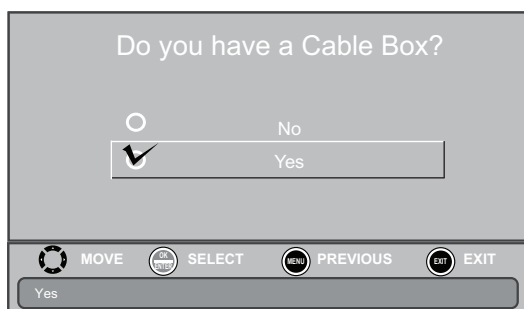


During scanning, your TV searches for digital channels first. When the digital channel search is complete, a message appears asking if you want to search for analog channels. Select **Yes** to continue searching for analog channels, or select **No** to stop searching for channels.

Note

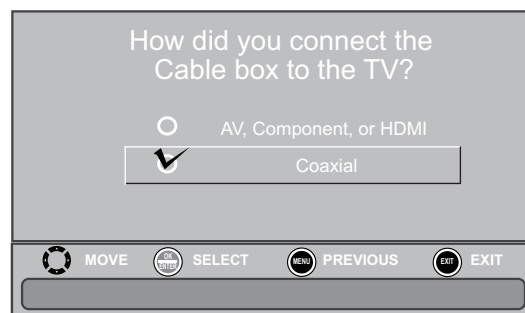
You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- B** If you select **Cable**, a message asks if you have a cable box:



- Select **No**, then press **ENTER** or **OK/ENTER** if no cable box is connected. Your TV scans for available channels. The scan may take several minutes.

- Select **Yes**, then press **ENTER** or **OK/ENTER** if a cable box is connected. A message asks how you connected the cable box to your TV.

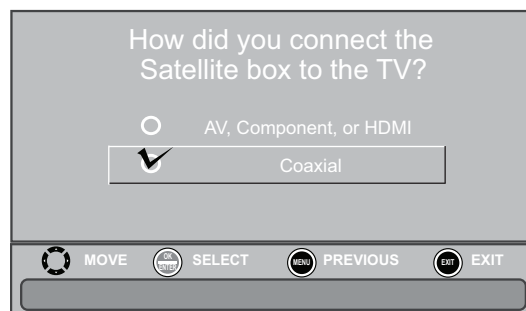


- Select **AV, Component, or HDMI**, then press **ENTER** or **OK/ENTER** if you connected a cable box to your TV using one of these cables. Read the message, then press **ENTER** or **OK/ENTER** to close the wizard.
- Select **Coaxial**, then press **ENTER** or **OK/ENTER** if you connected a cable box to your TV using a coaxial cable. Read the message, then press **ENTER** or **OK/ENTER** to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- C** If you select **Satellite Box**, a message asks how you connected the satellite box to your TV:



- Select **AV, Component, or HDMI**, then press **ENTER** if you connected a satellite box to your TV using one of these cables. Read the message, then press **ENTER** to close the wizard.
- Select **Coaxial**, then press **ENTER** if you connected a satellite box to your TV using a coaxial cable. Read the message, then press **ENTER** to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- 12 To watch TV, press **INPUT**, press **▲** or **▼** to highlight the video input source for your TV in the *Input Source* list, then press **ENTER** or **OK/ENTER**.
 - If your TV is connected to an antenna, cable TV (no box), or cable or satellite TV box using a coaxial cable, select **TV**.
 - If your TV is connected to a cable or satellite box using an HDMI cable or HDMI cable with a DVI adapter, select **HDMI 1**, **HDMI 2**, or **HDMI 3**.
 - If your TV is connected to a cable or satellite box using a component video cable, select **Component/AV**.
 - If your TV is connected to a cable or satellite box using a composite video cable, select **Component/AV**.

You can also press a Quick Launch Input button to select the video input source.

- Press **TV** to select **TV** (if your TV is connected to an antenna, cable TV (no box), or cable or satellite TV using a coaxial cable).
- (Remote control model NS-RC03A13) Press **VIDEO** to select component or composite input.
- (Remote control models NS-RC05A-11 and NS-RC01G-09) Press **COMP** to select component input.
- (Remote control models NS-RC05A-11 and NS-RC01G-09) Press **VIDEO** to select composite input.
- Press **HDMI** one or more times to cycle between the HDMI inputs.

Understanding the basics

Turning your TV on or off

To turn your TV on or off:

- 1 Make sure that the power cord is connected to a power outlet.
- 2 Press **⏻** (power) to turn on your TV. The power indicator turns blue.
- 3 Press **⏻** (power) again to turn off your TV. Your TV enters standby mode, and the power indicator LED turns red.

Warning

When your TV is in standby mode, it is still receiving power. To completely disconnect power, unplug the power cord.

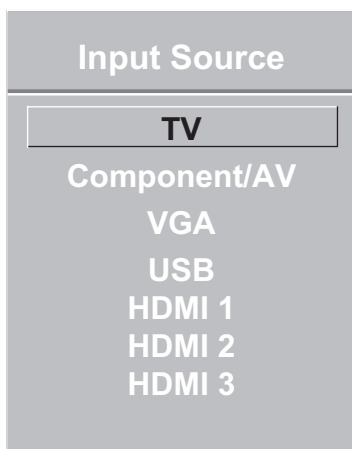
Note

If your TV does not receive an input signal for several minutes, it automatically goes into standby mode.

Selecting the video input source

To select the video input source:

- 1 Turn on your TV, then press **INPUT**. The *Input Source* list opens.



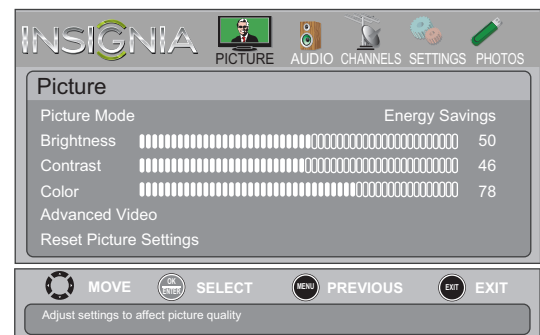
- 2 Press **▲** or **▼** to select a video input source, then press **ENTER**.

On-screen menu overview

Notes

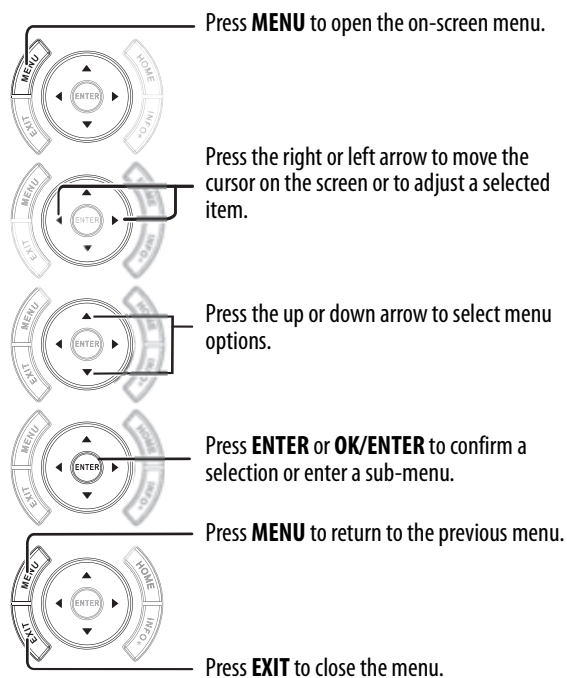
- Depending on the signal source selected, you may see different options on your screen. The following menus are shown in TV mode (except the *Photos* menu).
- Menu items that are not selectable are grayed out.
- Menus in this manual are described in TV mode, unless otherwise indicated.
- The screens shown in this manual are for explanation purposes and may vary from the actual screens on your TV.

Picture menu (TV mode)



Audio menu (TV mode)



Channels menu (TV mode)**Settings menu (TV mode)****Photos menu (USB mode)****Navigating the menus**

Selecting a channel

To select a channel:

- Press **CH** \wedge or **CH** \vee to go to the next or previous channel on the memorized channel list.
- Press the number buttons to enter channel number you want, then wait for the channel to change or press **ENTER** or **OK/ENTER** to immediately change the channel.
- To select a digital sub-channel, press the number buttons to select the main digital channel, press \bullet (dot) or $-$ (dash), then press the number button for the sub-channel. Wait for the channel to change, or press **ENTER** or **OK/ENTER** to immediately change the channel. For example, to tune to channel 5.1, press **5**, \bullet (dot) or $-$ (dash), then **1**.

Note

Button presses must be within three seconds of each other.

- Press \circ (recall) or **RECALL** to go to the last viewed channel.
- (Remote control model NS-RC03A-13 only) Press **CH-LIST** to open the channel list, press \blacktriangle or \blacktriangledown to highlight a channel, then press **ENTER** or **OK/ENTER**. Hidden channels are grayed and cannot be selected. See "[Hiding channels](#)" on page 33.
- Press **FAVORITE** or **FAV** to open the favorite channel list, press \blacktriangle or \blacktriangledown to highlight a channel, then press **ENTER** or **OK/ENTER**.

Note

If a list has more than one page, press \blacktriangle OR \blacktriangledown to scroll through the pages.

Adjusting the volume

To adjust the volume:

- Press **VOL+** or **VOL-** to increase or decrease the volume.
- Press MUTE or **MUTE** to turn off the sound. Press MUTE or **MUTE** again to turn the sound back on.

Viewing channel information

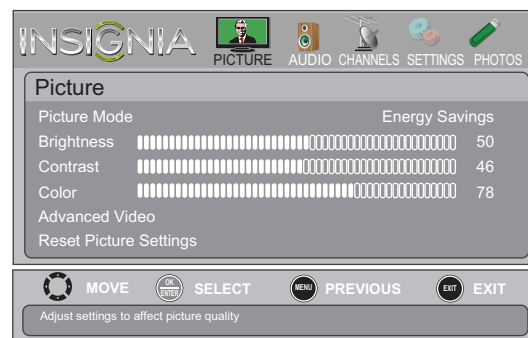
To view channel information:

- Press **INFO** to view an information banner. The information banner shows the current program information such as channel number, video input source, and resolution.
 - Digital channel information—Displays the channel number, station name, channel label, broadcast program name, TV rating, signal type, audio information, resolution, CC mode, current time, and current program start and end times.
 - Analog channel information—Displays channel number, channel label (if present), signal type, audio information, and resolution.

Viewing system information

To view system information:

- Press **MENU**. The on-screen menu opens.



- Press \blacktriangleleft or \blacktriangleright to highlight **SETTINGS**, then press \blacktriangledown or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



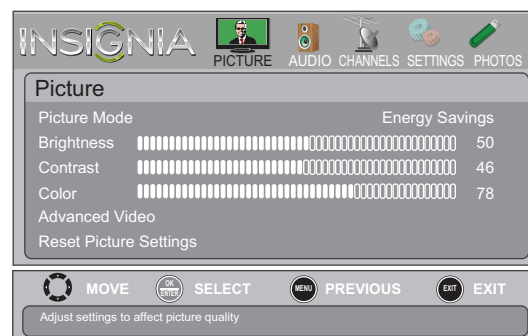
- Press \blacktriangle or \blacktriangledown to highlight **System Info**, then press **ENTER** or **OK/ENTER**. Information about the TV software version is displayed.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the picture

Adjusting the TV picture

To adjust the TV picture:

- Press **MENU**. The on-screen menu opens with the *Picture* menu displayed.



- Press \blacktriangledown or **ENTER** or **OK/ENTER** to access the menu.

- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER** to access the option. You can select:

- **Picture Mode**—Selects the picture mode. You can select:
 - **Vivid**—(a bright and vivid picture). Significantly increases the contrast, brightness, and sharpness. This selection is good for video games, animation, and in bright light environments.
 - **Standard**—(a standard picture). Moderately increases the contrast, brightness, and sharpness. This selection is good for standard TV broadcasts.
 - **Energy Savings**—(the backlight brightness is decreased). Your TV has a backlight that provides light for displaying a picture. By reducing the amount of light, your TV uses less energy.
 - **Theater**—(a finely detailed picture). Adjusts the brightness and contrast and lowers the sharpness for a more realistic picture. This selection is good for watching the highest quality video such as Blu-ray Discs, DVDs, and HDTV.
 - **Custom**—(customized picture). Lets you manually adjust picture settings such as brightness, contrast, and sharpness.
 - **Game**—Adjusts the picture for the ultimate gaming experience. You can select **On** or **Off**.

Note

You can also press **PICTURE** to select the picture mode.

- **Brightness**—Adjusts the brightness of the dark areas of the picture.
- **Contrast**—Adjusts the brightness of the light areas of the picture.
- **Color**—Adjusts the color intensity of the picture. A low setting may make the color look faded. A high setting may make the color look artificial.
- **Advanced Video**—Opens the *Picture · Advanced Video* menu where you can adjust additional video options.



- **Dynamic Backlight (DCR)**—Enhances the contrast ratio between light and dark areas of the picture. You can select **Off**, **Low**, or **High**.
- **Backlight**—Sets the overall brilliance of the screen.

- **Insignia Motion 120**—Eliminates motion blur with clear detail and smooth motion. You can select:
 - **Low**—Sets the effect to minimum.
 - **Medium**—Provides smooth and clear picture motion for normal use.
 - **High**—Eliminates motion blur with clear detail and smooth motion.
 - **24p Film Mode**—Provides smooth and clear picture motion from film based video.
 - **Off**—Turns off **Insignia Motion 120Hz**.
- **Aspect Ratio**—Selects the aspect ratio of the picture.

Aspect ratio options**Example****Normal:**

Displays the original 4:3 aspect ratio with vertical black bars on the left and right of the image.

**Zoom:**

Expands the image to fill the screen. The top and bottom of the image may be cropped.

**Wide:**

Use this option to view content recorded in a 16:9 (wide-screen) aspect ratio.

**Cinema:**

Stretches the image at the edges, but keeps a clear image in the center.

**Auto:**

Automatically adjusts the image based on the screen size and the TV program.

Note: **Auto** is only available when **Auto Zoom** in the *Channels* menu is set to **On**.

**Note**

You can also press **ZOOM** to select the aspect ratio.

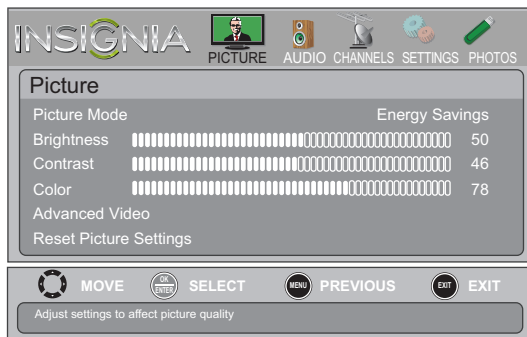
- **Color Temperature**—Selects the color temperature. You can select **Cool** (to enhance the blues), **Normal**, or **Warm** (to enhance the reds).
- **Overscan**—Adjusts the picture's reproduction rate. You can select **On** or **Off**.
- **Noise Reduction**—Selects the noise reduction mode to reduce picture noise (snow). You can select **Low**, **Middle**, **High**, or **Off**.
- **Tint**—Adjusts the color balance of the picture. Use this control to make skin tones look more natural.

- **Sharpness**—Adjusts the color detail of images. If you set this control too high, dark images may appear with light or white edges.
 - **Adaptive Contrast**—Automatically adjusts picture detail and brightness. You can select **On** or **Off**.
 - **Reset Picture Settings**—Resets all picture settings to factory mode.
- 4 Press **◀** or **▶** to adjust the option, or press **▲** or **▼** to select a setting.
 - 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the computer image

To adjust the computer image:

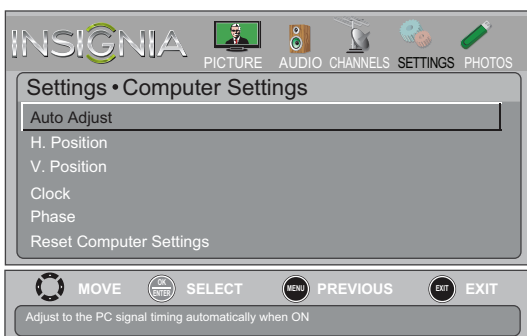
- 1 Make sure that your TV is in VGA mode. For more information, see [“Selecting the video input source”](#) on page 26.
- 2 Press **MENU**. The on-screen menu opens.



- 3 Press **◀** or **▶** to highlight **SETTINGS**, then press **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 4 Press **▲** or **▼** to highlight **Computer Settings**, then press **ENTER** or **OK/ENTER**. The *Settings • Computer Settings* menu opens.



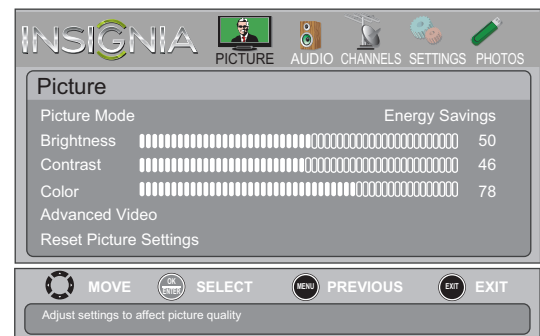
- 5 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER** to access the option. You can select:
 - **Auto Adjust**—Automatically adjusts the image settings such as position and phase.
 - **H. Position**—Moves the image right or left.
 - **V. Position**—Moves the image up or down.
 - **Clock**—Adjusts the sample frequency.
 - **Phase**—Adjusts the focus of stable images.
 - **Reset Computer Settings**—Resets all computer settings to factory mode.
- 6 Press **◀** or **▶** to adjust the option, or press **▲** or **▼** to select a setting.
- 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting component video settings

You can adjust the horizontal distortion that may occur when watching video from a component video device.

To adjust component video settings:

- 1 Make sure you have a device connected to the **Y/PB/PR** (component video) jacks on the side of your TV.
- 2 Press **VIDEO** (remote control model NS-RC03A13) or **COMP** (remote control models NS-RC05A-11 and NS-RC01G-09) to select the component video device.
- 3 Press **MENU**. The on-screen menu opens.



- 4 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 5 Press **▲** or **▼** to highlight **Component Settings**, then press **ENTER** or **OK/ENTER**.

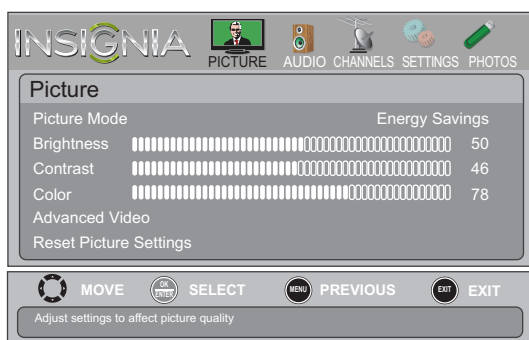
- 6 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER** to access the option. You can select:
 - **Phase**—Minimizes horizontal distortion.
 - **Reset Component Settings**—Resets all component video settings to factory mode.
- 7 Press **◀** or **▶** to adjust the option, or press **▲** or **▼** to select a setting.
- 8 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting the sound

Adjusting sound settings

To adjust sound settings:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **AUDIO**, then press **▼** or **ENTER** or **OK/ENTER**. The *Audio* menu opens.



- 3 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER** to access the option. You can select:
 - **Sound Mode**—Selects the sound mode. You can select:
 - **Standard**—Balances treble and bass. This setting is good for watching standard TV broadcasts.
 - **Theater**—Enhances treble and bass for a rich sound experience. This setting is good for watching DVDs, Blu-ray discs, and HDTV.
 - **Music**—Preserves the original sound. This setting is good for listening to music.
 - **News**—Enhances vocals for TV audio. This setting is good for watching news broadcasts.

- **Custom**—Lets you manually adjust sound settings.

Note

You can also press **AUDIO** one or more time select the **Sound Mode**. We did not list the modes in this note because they are list just above in the list.

- **Balance**—Adjusts the balance between the left and right audio channels.
- **Advanced Audio**—Opens the *Audio · Advanced Audio* menu where you can adjust additional audio options.



- **Bass**—Adjusts the low sounds.
- **Treble**—Adjusts the high sounds.
- **TV Speakers**—Selects where to play TV audio. You can select **On** (default setting) to play audio through TV speakers, or select **Off** to play audio through the speakers on an external audio system.
- **Digital Audio/SPDIF**—Sends digital audio to an external audio system. You can select **PCM** (to output audio in 2-channel stereo), or **RAW** (to pass through the original digital audio sound).
- **MTS/SAP**—(Analog channels only) Selects the audio mode. You can select:
 - **MONO**—Select this option if there is noise or static on weak stereo broadcasts.
 - **STEREO**—Select this option for programs broadcast in stereo.
 - **SAP**—Select this option to listen to a secondary audio program, if available.

Note

You can also press **MTS/SAP** (remote control model NS-RC05A-13) or **SAP** (remote control model NS-RC01G-09) one or more times to select the audio mode.

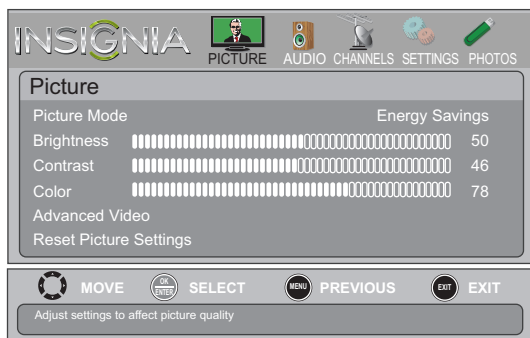
- **Audio Language**—(Digital channels only) Selects an alternate audio language, if available.
 - **Reset Audio Settings**—Reset all audio settings to factory defaults.
- 4 Press **◀** or **▶** to adjust the option, or press **▲** or **▼** to select a setting.
 - 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Playing TV audio only

You can turn off the picture on your TV and listen to the program audio only.

To play TV audio only:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Channels* menu opens.



- 3 Press **▲** or **▼** to highlight **Audio Only**, then press **ENTER**.
- 4 Press **▲** or **▼** to select **On**.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Notes

- **Audio Only** works only when the input source is TV, and your TV is receiving a broadcast signal.
- To exit audio only mode, press any button. When you exit audio only mode, the **Audio Only** option is automatically reset to **Off**.

Changing channel settings

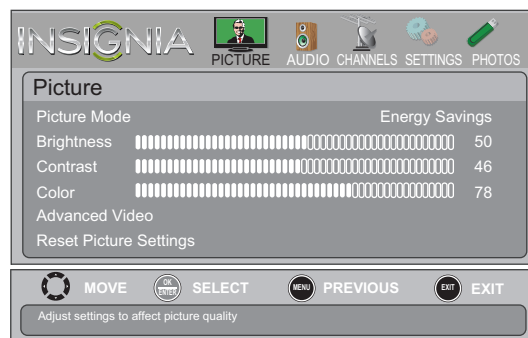
Automatically scanning for channels

When you scan for channels, your TV searches for channels with signals and stores the channel information in the channel list. When you press **CH ▲** or **CH ▼**, your TV goes to the next or previous channel in the channel list.

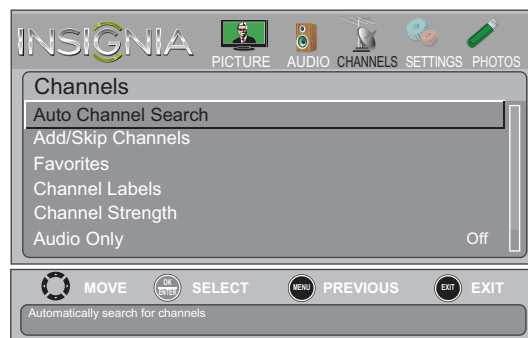
If the TV signal source changes, for example you change from an outdoor antenna to cable TV (no box), you need to scan for channels.

To automatically scan for channels:

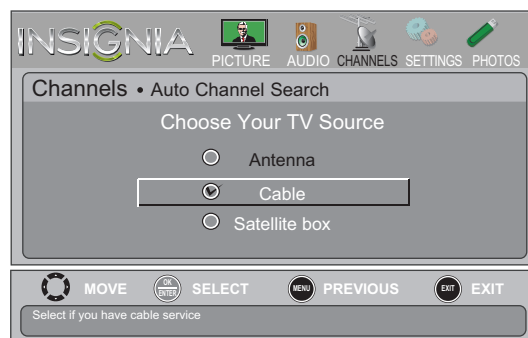
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**. The *Channels* menu opens.



- 3 Press **▲** or **▼** to highlight **Auto Channel Search**, then press **ENTER**. The *Channels · Auto Channel Search* screen opens.



- 4 Press **▲** or **▼** to highlight **Antenna, Cable,** or **Satellite Box**, then press **ENTER**.

- A** If you select **Antenna**, your TV scans for available channels. The scan may take several minutes.
- During scanning, your TV searches for digital channels first. When the digital channel search is complete, a message appears asking if you want to search for analog channels. Select **Yes** to continue searching for analog channels, or select **No** to stop searching for channels.

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- B** If you select **Cable**, a message asks if you have a cable box:
- Select **No**, then press **ENTER** if no cable box is connected. Your TV scans for available channels. The scan may take several minutes.
 - Select **Yes**, then press **ENTER** if a cable box is connected. A message asks how you connected the cable box to your TV.
 - Select **AV, Component, or HDMI**, then press **ENTER** or **OK/ENTER** if you connected a cable box to your TV using one of these cables. Read the message, then press **ENTER** or **OK/ENTER** to close the wizard.
 - Select **Coaxial**, then press **ENTER** if you connected a cable box to your TV using a coaxial cable. Read the message, then press **ENTER** to start the channel scan (VHF channels only).

Note

You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

- C** If you select **Satellite Box**, a message asks how you connected the satellite box to your TV:
- Select **AV, Component, or HDMI**, then press **ENTER** if you connected a satellite box to your TV using one of these cables. Read the message, then press **ENTER** to close the wizard.
 - Select **Coaxial**, then press **ENTER** if you connected a satellite box to your TV using a coaxial cable. Read the message, then press **ENTER** to start the channel scan (VHF channels only).

Note

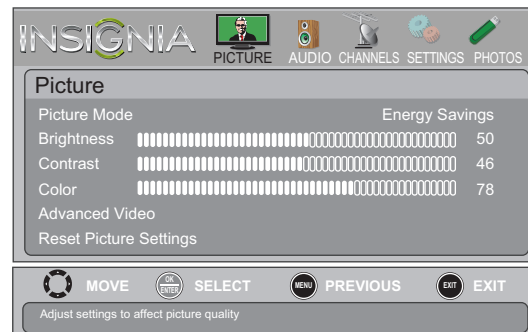
You can press **EXIT** to stop the auto channel search, but you will need to run the auto channel search again to create a channel list.

Hiding channels

You can hide channels in the channel list. When you press **CH▲** or **CH▼**, your TV skips the hidden channels. You can still tune to a hidden channel by pressing the number buttons for the channel.

To hide channels:

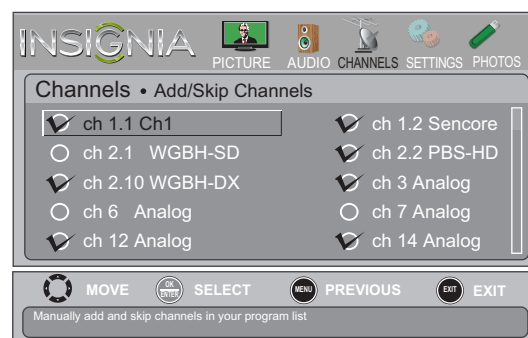
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER**. The **Channels** menu opens.



- 3 Press **▲** or **▼** to highlight **Add/Skip Channels**, then press **ENTER**. The **Channels · Add/Skip Channels** screen opens.



- 4 Press **▲** **▼** **◀** or **▶** to highlight the channel you want to hide, then press **ENTER**. The check mark disappears.

Notes

- A channel with a check mark is not hidden. A channel with no check mark is hidden.
- If the list has more than one page, press **▲** or **▼** to scroll through the pages.

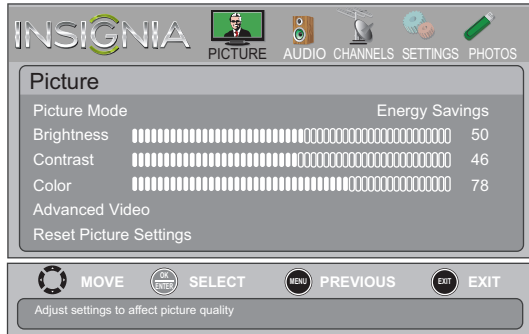
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting up a favorite channel list

You can create a favorite channel list so you can quickly browse through your favorite channels by pressing **FAVORITE** or **FAV**, then selecting a channel from the favorite channel list.

To set up a favorite channel list:

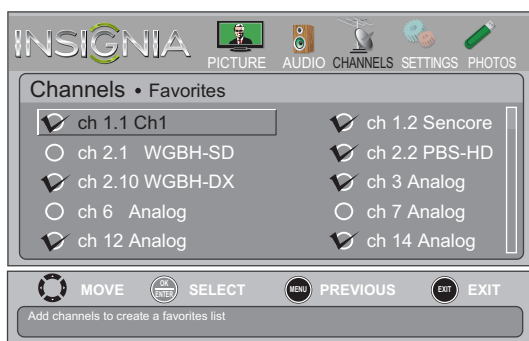
- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Channels* menu opens.



- 3 Press **▲** or **▼** to highlight **Favorites**, then press **ENTER** or **OK/ENTER**. The *Channels · Favorites* screen opens.



- 4 Press **▲** **▼** **◀** or **▶** to highlight the channel you want to add to the favorites list, then press **ENTER** or **OK/ENTER**. A check mark appears next to the channel.

Notes

- To remove a channel from the favorites list, highlight the channel, then press **ENTER** or **OK/ENTER**. The check mark disappears and the channel is removed from the list.
- If the list has more than one page, press **▲** or **▼** to scroll through the pages.

- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Viewing a favorite channel

To view a favorite channel:

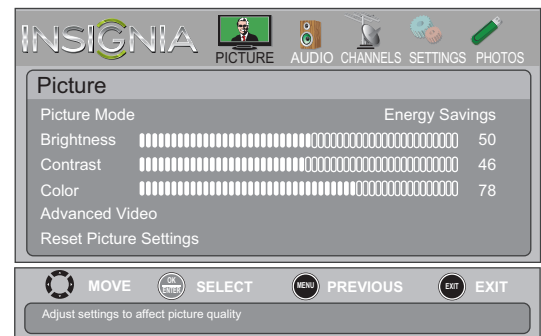
- 1 Press **FAVORITE** or **FAV**. The favorite channel list opens.
- 2 Press **▲** or **▼** to highlight a channel, then press **ENTER** or **OK/ENTER**.

Adding or changing a channel label

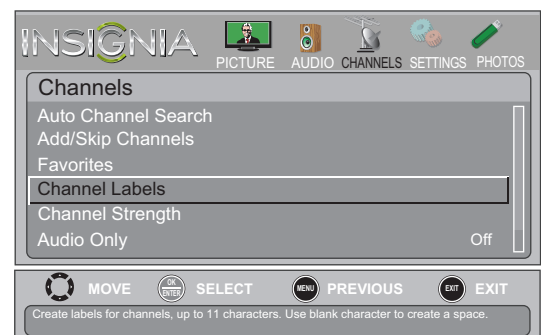
If a channel is not already labeled, you can label the channel to make it easier to identify. You can also relabel a channel that is already labeled.

To add or change a channel label:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **Channels**, then press **▼** or **ENTER** or **OK/ENTER**. The *Channels* menu opens.



- Press **▲** or **▼** to highlight **Channel Labels**, then press **ENTER** or **OK/ENTER**. The *Channels · Channel Labels* screen opens with the channel number field highlighted.



- Press **▲** or **▼** to select the channel you want to label, then press **▶** to move to the channel label field.



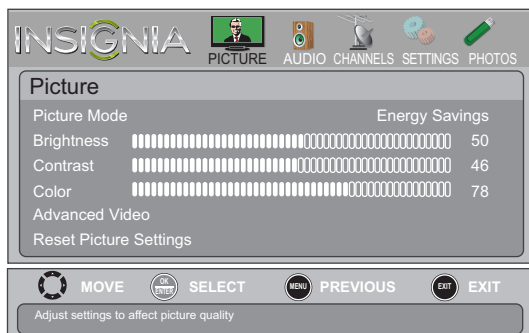
- Press **▲** or **▼** to select a character, then press **◀** or **▶** to move to the previous or next character position. Repeat this step to enter additional characters. You can enter as many as 11 characters.
- When you have completed the label, press **MENU**.
- Press **EXIT** to close the menu.

Checking the digital signal strength

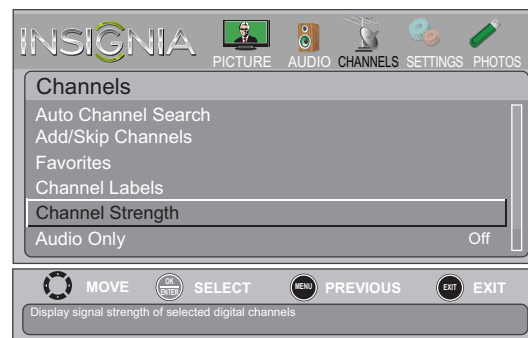
You can check the digital signal strength to determine if you need to adjust your antenna or digital cable input. The higher the signal strength, the less likely you are to experience picture degradation.

To check the digital signal strength:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **CHANNELS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Channels* menu opens.



- Press **▲** or **▼** to highlight **Channel Strength**, then press **ENTER** or **OK/ENTER**. The signal strength meter is displayed.



- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

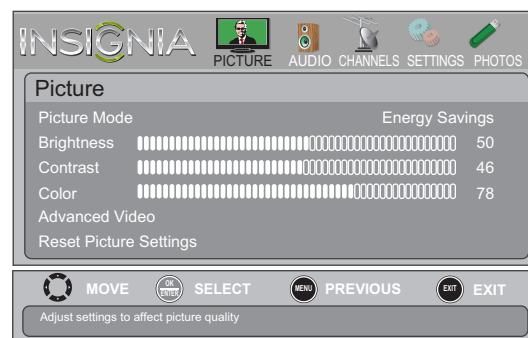
Setting parental controls

Setting or changing the password

Parental controls let you prevent your children from watching inappropriate material on TV. When set, parental controls read the rating of the program (with some exceptions, such as news and sports) and deny access to programs that exceed the ratings level you select. To watch programs that exceed the selected rating, you must enter a password.

To set or change the password:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens with **Parental Controls** highlighted.



- Press **ENTER** or **OK/ENTER**. The *Enter Password* screen opens.



- Press the number buttons to enter the four-digit password. The default password is **0000**. You should change the password to a number you can remember. The *Settings-Parental Controls* menu opens.



- Press **▲** or **▼** to highlight **Change Password**, then press **ENTER** or **OK/ENTER**. The *Enter New Password* box opens.



- Press the number buttons to enter a password, then enter the password again.

Note

If you forget your password, enter **9999**.

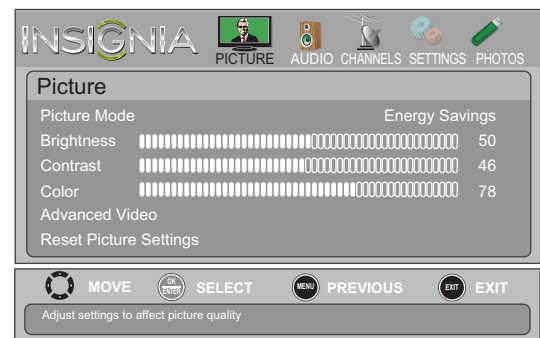
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Locking control buttons

When the button lock is turned **On**, the buttons on the side of your TV are locked, and you can only operate your TV using the remote control.

To lock control buttons:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens with **Parental Controls** highlighted.



- 3 Press **ENTER** or **OK/ENTER**. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the four-digit password. The *Settings • Parental Controls* menu opens with **Button Lock** highlighted.

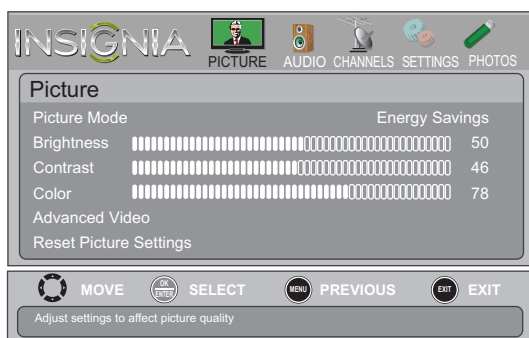


- 5 Press **ENTER** or **OK/ENTER**.
 6 Press **▲** or **▼** to select **On** (locks the buttons) or **Off** (unlocks the buttons).
 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Blocking unrated TV

To block unrated TV:

- 1 Press **MENU**. The on-screen menu opens.



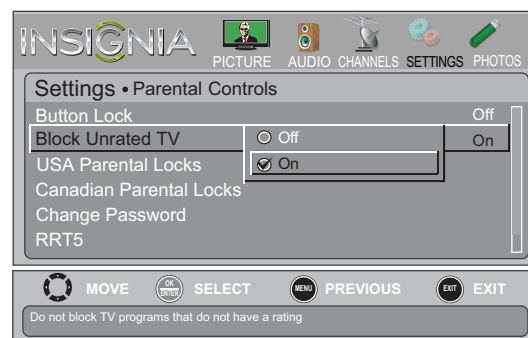
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens with **Parental Controls** highlighted.



- 3 Press **ENTER** or **OK/ENTER**. The *Enter Password* screen opens.



- 4 Press the number buttons to enter the four-digit password. The *Settings • Parental Controls* menu opens.



- 5 Press **▲** or **▼** to highlight **Block Unrated TV**, then press **ENTER** or **OK/ENTER**.
 6 Press **▲** or **▼** to select **On** (to block unrated TV) or **Off** (to unblock unrated TV).
 7 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting parental control levels

You can set parental controls for the U.S. and Canada.

U.S. rating levels

U.S. TV ratings	
NONE	Not rated
TV-Y	All children
TV-Y7	Suitable for children 7 and older
TV-G	General audiences
TV-PG	Parental guidance suggested
TV-14	Parental guidance strongly suggested
TV-MA	Mature audiences only

Some of the age-based TV Parental Guidelines ratings also have content-based ratings.

U.S. TV content ratings	
All	All ratings are blocked
FV	Fantasy violence
L	Strong language
S	Sexual situations
V	Violence
D	Suggestive dialog

U.S. movie (MPAA) ratings	
None	Movie not rated
G	General audiences
PG	Parental guidance suggested
PG-13	Suitable for children 13 and older
R	Parental guidance suggested for children under 17
NC-17	Not suitable for children under 17
X	Adults only

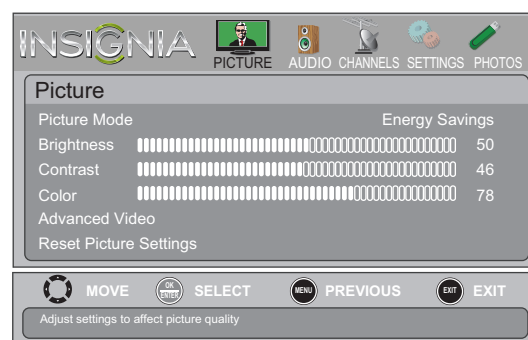
Canadian rating levels

Canadian English ratings	
E	Exempt programming
C	Suitable for all children
C8+	Suitable for children 8 and older
G	General audiences
PG	Parental guidance suggested
14+	Suitable for children 14 and older
18+	Adult only

Canadian French ratings	
E	Exempt programming
G	General audiences
8ans+	Suitable for children 8 and older
13ans+	Suitable for children 13 and older
16ans+	Suitable for children 16 and older
18ans+	Adult only

To set parental control levels:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens with **Parental Controls** highlighted.



- 3 Press **ENTER** or **OK/ENTER**. The *Enter Password* screen opens.

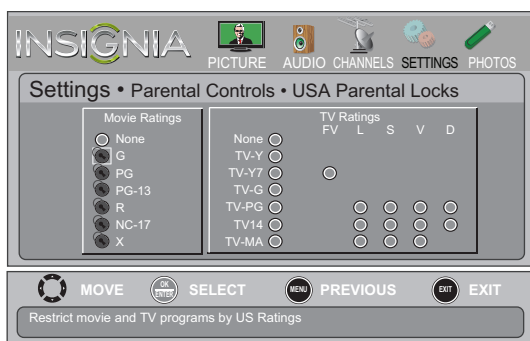


- 4 Press the number buttons to enter the four-digit password. The *Settings • Parental Controls* menu opens.



- 5 Press **▲** or **▼** to highlight **USA Parental Locks**, then press **ENTER** or **OK/ENTER**. (To set Canadian ratings, select **Canadian Parental Locks**.)

USA Parental Locks



Canadian Parental Locks



- 6 Press **◀** or **▶** to highlight:
- **Movie Ratings** or **TV Ratings** for USA ratings.
 - **English Rating** or **French Rating** for Canadian ratings.
- 7 Press **▲** or **▼** to select the rating. If a rating has sub-ratings, press **◀** or **▶** to highlight a sub-rating.

Note

When you block a rating, that rating and all higher ratings are blocked.

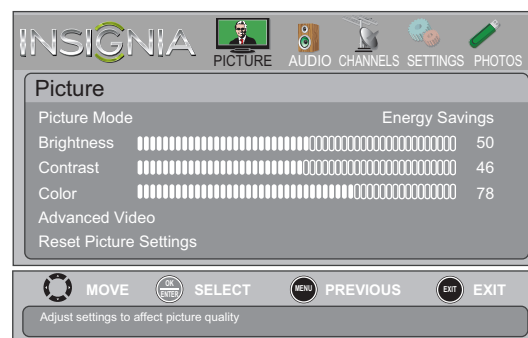
- 8 Press **ENTER** or **OK/ENTER** to confirm. A lock symbol appears when a rating is blocked.
- 9 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Downloading rating information

You can download rating information to use when setting parental controls.

To download rating information:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens with **Parental Controls** highlighted.



- 3 Press **ENTER** or **OK/ENTER**. The *Enter Password* screen opens.



- Press the number buttons to enter the four-digit password. The *Settings • Parental Controls* menu opens.



- Press **▲** or **▼** to highlight **RRT5**, then press **ENTER** or **OK/ENTER**.
If the program is broadcast with RRT5 rating information, the information is downloaded automatically and can be used for parental controls.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

- Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **OK/ENTER**. The *Settings • Closed Caption* menu opens.



- Press **▲** or **▼** to highlight **Caption Control**, then press **ENTER** or **OK/ENTER**. A menu opens.
- Press **▲** or **▼** to select **CC Off** (turns off closed captioning), **CC On** (turns on closed captioning), or **CC on Mute** (turns on closed captioning when the sound is muted).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Note

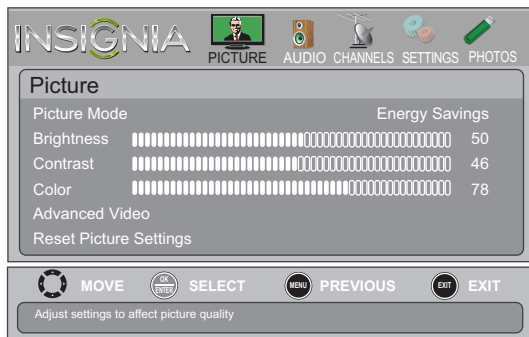
You can also press **CCD** or **CC** to turn closed captioning on or off.

Using closed captioning

Turning closed captioning on or off

To turn closed captioning on or off:

- Press **MENU**. The on-screen menu opens.



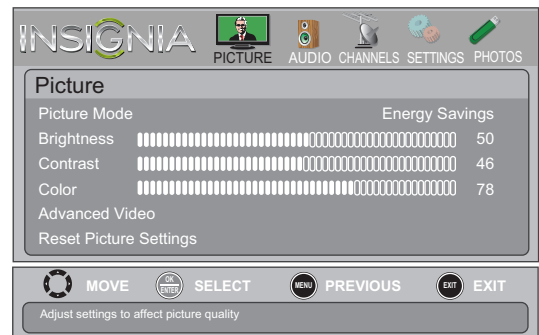
- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



Selecting the analog closed captioning mode

To select the analog closed captioning mode:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **OK/ENTER**. The *Settings · Closed Caption* menu opens.

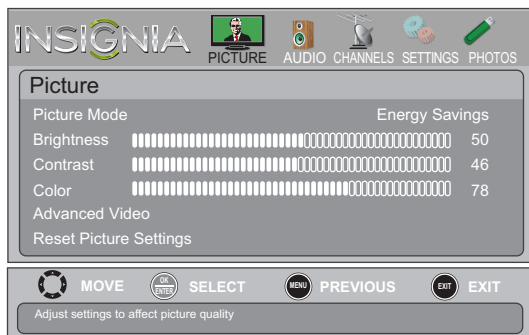


- 4 Press **▲** or **▼** to highlight **Analog Caption**, then press **ENTER** or **OK/ENTER**. A menu opens.
- 5 Press **▲** or **▼** to select an analog caption setting. You can select:
- **CC1** through **CC4**—Closed captioning appears in a small banner across the bottom of the screen. **CC1** is usually the “printed” version of the audio. **CC2** through **CC4** display content provided by the broadcaster.
 - **Text1** through **Text4**—Closed captioning covers half or all of the screen. **Text1** through **Text4** display content provided by the broadcaster.
- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Customizing digital closed captioning styles

To customize digital closed captioning styles:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



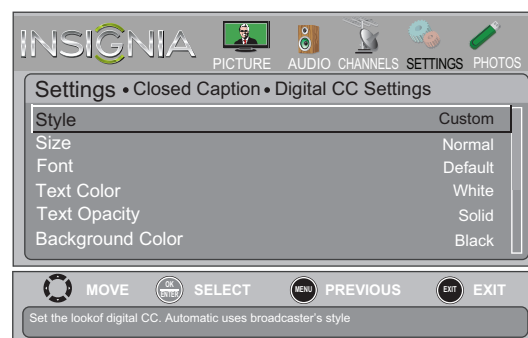
- 3 Press **▲** or **▼** to highlight **Closed Caption**, then press **ENTER** or **OK/ENTER**. The *Settings · Closed Caption* menu opens.



- 4 Press **▲** or **▼** to highlight **Digital Caption**, then press **ENTER** or **OK/ENTER**. A menu opens.
- 5 Press **▲** or **▼** to highlight a digital caption setting, then press **ENTER** or **OK/ENTER**. You can select **CS1** through **CS6** or **CC1** through **CC4**.
- 6 Press **MENU** to return to the previous menu.



- 7 Press **▲** or **▼** to highlight **Digital CC Settings**, then press **ENTER** or **OK/ENTER**. The *Settings · Closed Caption · Digital CC Settings* menu opens with **Style** highlighted.



- 8 Press **ENTER** or **OK/ENTER**, then press **◀** or **▶** to select **Custom**.
- 9 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER**. You can select:
- **Size**—Selects the font size.
 - **Font**—Selects the font style.
 - **Text Color**—Selects the color for the words.
 - **Text Opacity**—Selects the opacity level for the words.

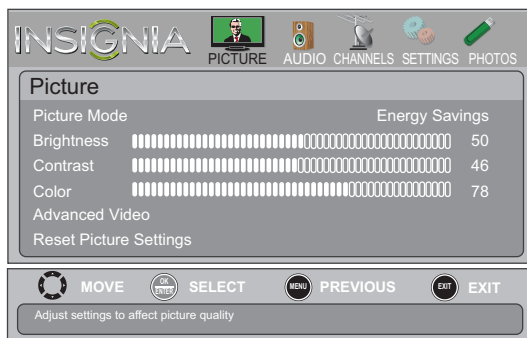
- **Background Color**—Selects the color for the background.
 - **Background Opacity**—Selects the opacity level for the background.
 - **Edge Effect**—Selects the edge style.
 - **Edge Color**—Selects the edge color.
- 10 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Adjusting time settings

Setting the clock

To set the clock:

- 1 Press **MENU**. The on-screen menu opens.



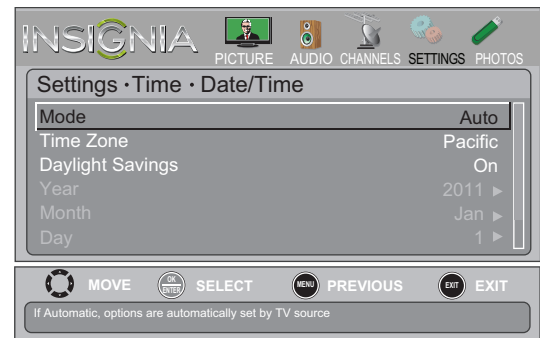
- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Time**, then press **ENTER** or **OK/ENTER**. The *Settings • Time* menu opens.



- 4 Press **▲** or **▼** to highlight **Date/Time**, then press **ENTER** or **OK/ENTER**. The *Settings • Time • Date/Time* menu opens.



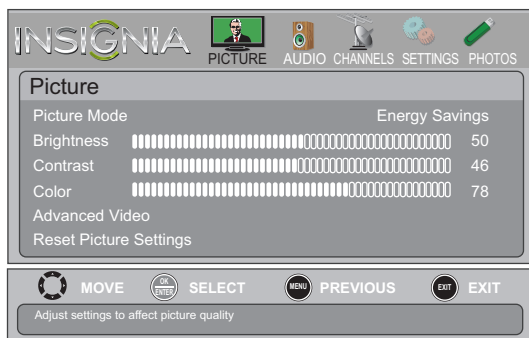
- 5 Press **▲** or **▼** to highlight **Mode**, then press **ENTER** or **OK/ENTER**. A menu opens.
- 6 Press **▲** or **▼** to highlight **Manual** (to set the options manually) or **Auto** (the options are automatically set by the TV signal source).
- 7 Press **ENTER** or **OK/ENTER** to close the menu.
- 8 Press **▲** or **▼** to highlight **Time Zone**, then press **ENTER** or **OK/ENTER**. The *Time • Time Zone* menu opens.
- 9 Press **▲** or **▼** to select your time zone, then press **ENTER** or **OK/ENTER**. You can select **Eastern, Central, Mountain, Pacific, Alaska, Hawaii, Atlantic** or **Newfoundland**.
- 10 Press **ENTER** or **OK/ENTER** to close the menu.
- 11 If your viewing area observes daylight savings time, press **▲** or **▼** to highlight **Daylight Savings**, then press **ENTER** or **OK/ENTER**.
- 12 Press **▲** or **▼** to select **On** or **Off**, then press **ENTER** or **OK/ENTER** to close the menu.
- 13 If you selected **Manual** for **Mode**:
- Press **▲** or **▼** to highlight **Year, Month, or Day**, then press **◀** or **▶** to adjust the setting, then press **ENTER** or **OK/ENTER**.
 - Press **▲** or **▼** to highlight **Time**, press **◀** or **▶** to highlight the hour, minute, or AM/PM field, then press **▲** or **▼** to adjust the setting. When you are finished, press **ENTER** or **OK/ENTER**.
- 14 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Setting the sleep timer

You can specify the amount of time before your TV automatically turns off.

To set the sleep timer:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Time**, then press **ENTER** or **OK/ENTER**. The *Settings • Time* menu opens.



- 4 Press **▲** or **▼** to highlight **Sleep Timer**, then press **ENTER** or **OK/ENTER**. A menu opens.
- 5 Press **▲** or **▼** to select the amount of time before your TV turns off automatically. You can select **Off**, **5**, **10**, **15**, **30**, **60**, **90**, **120**, **180**, or **240** minutes.

To turn off the sleep timer, select **Off**.

- 6 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Note

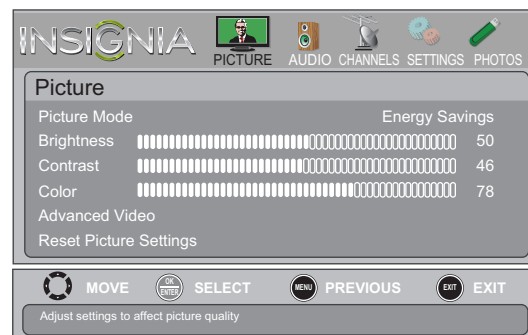
You can also press **SLEEP** to set the sleep timer.

Adjusting menu settings

Selecting the menu language

To select the menu language:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



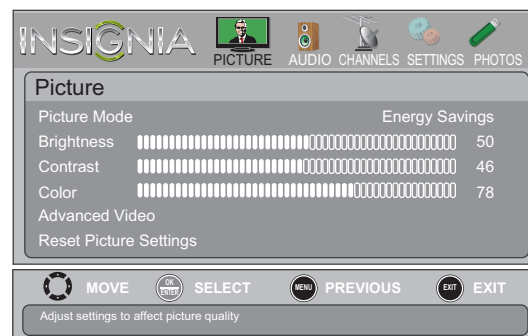
- 3 Press **▲** or **▼** to highlight **Menu Language**, then press **ENTER** or **OK/ENTER**. A menu opens.
- 4 Press **▲** or **▼** to highlight a language, then press **ENTER** or **OK/ENTER**. You can select **English**, **Français**, or **Español**.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Labeling an input source

You can add a label to an input source to make it easier to identify.

To label an input source:

- 1 Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- Press **▲** or **▼** to highlight **Input Labels**, then press **ENTER** or **OK/ENTER**. The *Settings · Input Labels* screen opens with the input source field highlighted.



- Press **▲** or **▼** to select the input source you want to label.
- Press **▶** to move to the custom label field, then press **ENTER** or **OK/ENTER**.



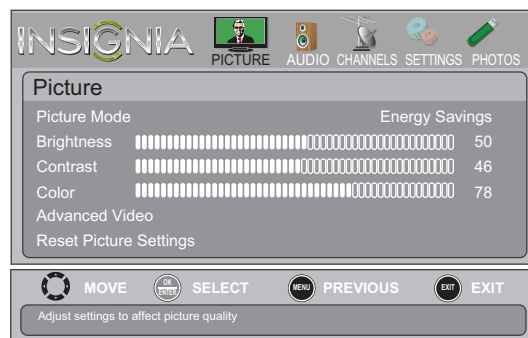
- Press **▲** or **▼** to select a character, then press **◀** or **▶** to move to the previous or next character position. Repeat this step to enter additional characters. You can enter as many as 11 characters.
- When you have completed the label, press **ENTER** or **OK/ENTER**. A message asks if you want to save the label. Select **Yes**, then press **ENTER** or **OK/ENTER**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu. The next time you press **INPUT**, your label will appear in the *Input Source* list.

Turning the Input Sensor on or off

When the Input Sensor feature is turned on, your TV automatically detects which video jacks have devices connected to them. Your TV uses this information to determine what options you can select on the *Input Source* list when you press **INPUT**.

To turn the Input Sensor on or off:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



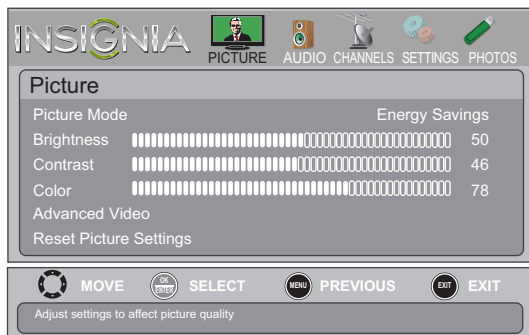
- Press **▲** or **▼** to highlight **Auto Input Sensing**, then press **ENTER** or **OK/ENTER**. A menu opens.
- Press **▲** or **▼** to select **On** (turns on the input sensor) or **Off** (turns off the input sensor).
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Restoring settings to the defaults

When you restore default settings, all the settings you have customized (except the password and parental rating) are reset.

To restore settings to the defaults:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- 3 Press **▲** or **▼** to highlight **Reset to Default**, then press **ENTER** or **OK/ENTER**. A confirmation message opens.
- 4 Press **◀** or **▶** to select **Yes** (to reset) or **No** (to not reset), then press **ENTER** or **OK/ENTER**.
- 5 Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Using INlink

INlink lets you control HDMI CEC-compatible devices connected to the HDMI jacks on your TV. To use INlink, you must set the **INlink Control** setting on the *Settings-INlink* menu to **On**.

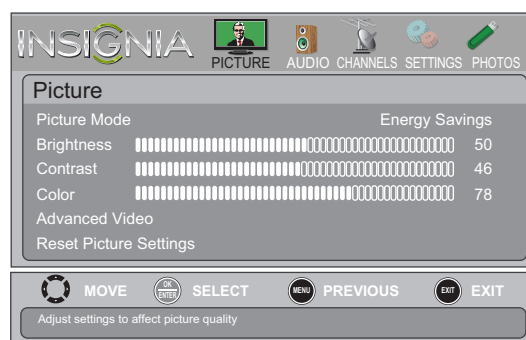
Note

- HDMI cables must be used to connect HDMI CEC-compatible devices to your TV.
- The connected device's HDMI CEC feature must be turned on.
- If you connect an HDMI device that is not HDMI CEC-compatible, all the **INlink Control** features do not work.
- Depending on the connected HDMI device, the **INlink Control** feature may not work.

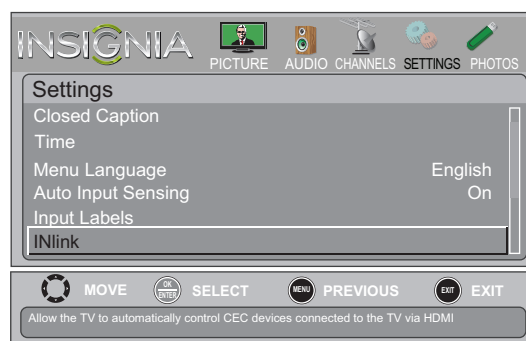
Turning INlink on or off

To turn INlink on or off:

- 1 Press **MENU**. The on-screen menu opens.



- 2 Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **OK/ENTER**. The *Settings · INlink* menu opens.



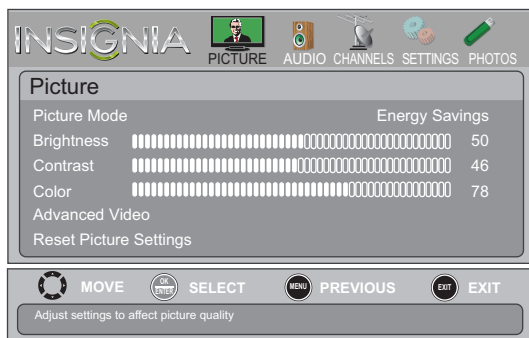
- Press **▲** or **▼** to highlight **INlink Control**, then press **ENTER** or **OK/ENTER**.
- Press **▲** or **▼** to highlight **On** or **Off**, then press **ENTER** or **OK/ENTER**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Turning Device Auto Power Off on or off

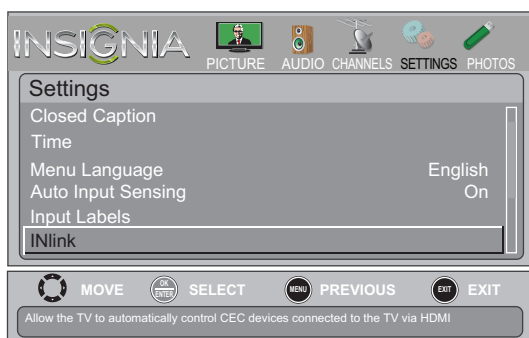
When INlink is turned on, **Device Auto Power Off** turns off HDMI CEC devices when you turn off your TV.

To turn Device Auto Power Off on or off:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **OK/ENTER**. The *Settings · INlink* menu opens.



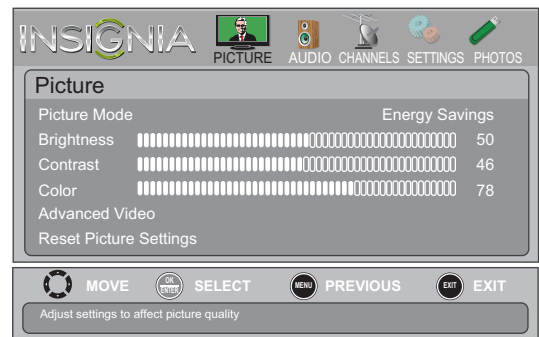
- Press **▲** or **▼** to highlight **Device Auto Power Off**, then press **ENTER** or **OK/ENTER**.
- Press **▲** or **▼** to highlight **On** (turns off the connected devices when you turn off your TV) or **Off** (does not turn off the connected devices when you turn off your TV), then press **ENTER** or **OK/ENTER**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Turning TV Auto Power On on or off

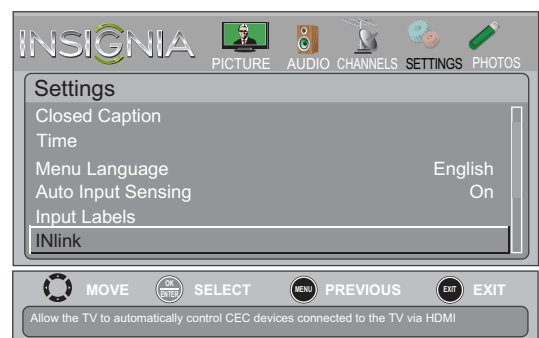
When INlink is turned on and you turn on an HDMI CEC device, **TV Auto Power On** turns on your TV automatically.

To turn TV Auto Power On on or off:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **OK/ENTER**. The *Settings • INlink* menu opens.



- Press **▲** or **▼** to highlight **TV Auto Power On**, then press **ENTER** or **OK/ENTER**.
- Press **▲** or **▼** to highlight **On** (turns on your TV when you turn on the connected device) or **Off** (does not turn on your TV when you turn on the connected device), then press **ENTER** or **OK/ENTER**.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Displaying a list of INlink-compatible (HDMI CEC) devices

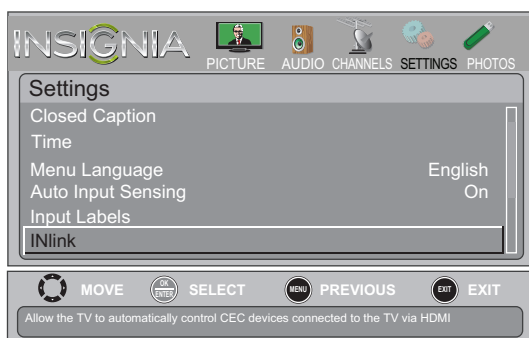
You can display a list of HDMI CEC devices that are connected to your TV.

To display a list of INlink-compatible (HDMI CEC) devices:

- Press **MENU**. The on-screen menu opens.



- Press **◀** or **▶** to highlight **SETTINGS**, then press **▼** or **ENTER** or **OK/ENTER**. The *Settings* menu opens.



- Press **▲** or **▼** to highlight **INlink**, then press **ENTER** or **OK/ENTER**. The *Settings • INlink* menu opens.



- Press **▲** or **▼** to highlight **INlink Device Lists**, then press **ENTER** or **OK/ENTER**. A list of the HDMI CEC-compatible devices you have connected appears.
- Press **MENU** to return to the previous menu, or press **EXIT** to close the menu.

Using a USB flash drive

You can connect a USB flash drive to your TV to view compatible JPEG pictures.

Notes

- Never remove the USB flash drive or turn off your TV while viewing JPEG pictures.
- The JPEG picture viewer only supports JPEG format images (with ".jpg" file extensions) and not all JPEG files are compatible with your TV.

Switching to USB mode

To switch to USB mode:

- Make sure that you have connected the USB flash drive to the USB port on your TV.
- Press **INPUT**. The *Input Source* list opens.
- Press **▲** or **▼** to highlight **USB**, then press **ENTER** or **OK/ENTER**.

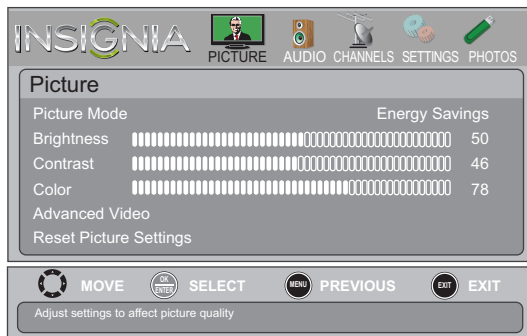
Note

- When you connect a USB flash drive to your TV, your TV automatically detects the device and displays the message "Do you want to show photos in USB?". Select **Yes** to switch to USB mode or select **No** to stay in the current mode.
- To exit USB mode, press **INPUT** to open the *Input Source* list, then select another input source, or press a Quick Launch Input button.

Browsing photos

To browse photos:

- 1 Switch to USB mode. See "[Switching to USB mode](#)" on page 47.
- 2 Press **MENU**. The on-screen menu opens.



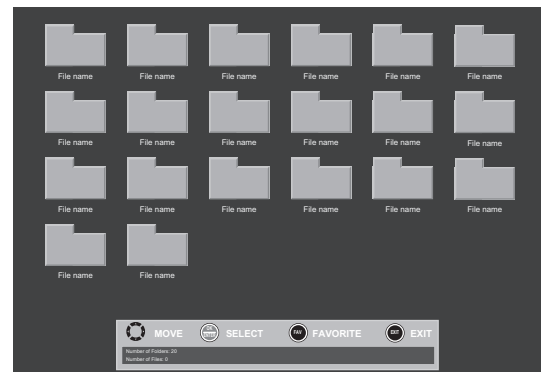
- 3 Press **◀** or **▶** to highlight **PHOTOS**, then press **ENTER** or **OK/ENTER**. The *Photos* menu opens with **Photos** highlighted.



- 4 Press **ENTER** or **OK/ENTER**. The *Photos · Photos* menu opens.

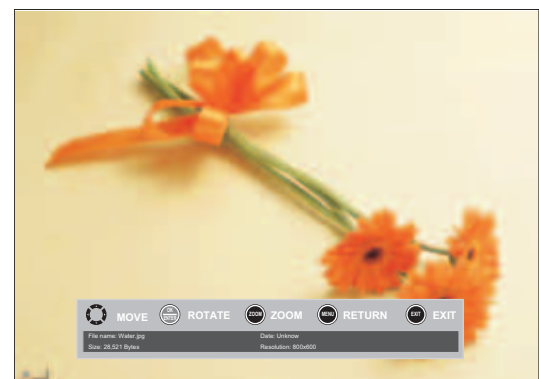


- 5 Press **▲** or **▼** to highlight **Browse Photos**, then press **ENTER** or **OK/ENTER**. The screen displays folder names and photo files stored on the USB flash drive in a thumbnail index with the first photo or folder highlighted. A control bar appears at the bottom of the screen.



- 6 To navigate the thumbnail index screen, press:
 - **▲ ▼ ◀ ▶** to browse through the files and folders.
 - **ENTER** or **OK/ENTER** to view a highlighted photo full-screen or open a highlighted folder.
 - **MENU** to open the *Photo* menu.
 - **FAVORITE** or **FAV** to add or remove a photo from the favorite photo list. A heart appears on a photo that has been added to the favorite photo list.
 - Press **EXIT** to close the control bar.

When a photo is displayed full-screen, a control bar appears at the bottom of the photo. The file name, picture resolution, size, and date are displayed on the bottom of the control bar. If you do not press a button within 10 seconds, the control bar closes. Press any button to open the control bar again.



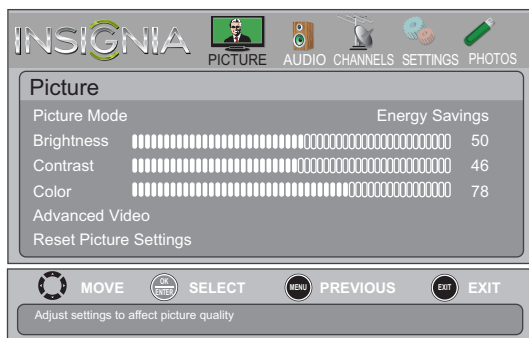
- 7 To navigate on the photo screen, press:
 - **◀** or **▲** to go to the previous photo.
 - **▶** or **▼** to go to the next photo.
 - **ENTER** or **OK/ENTER** to rotate the photo clockwise.
 - **ZOOM** one or more times to enlarge the image by 1×, 2×, or 4× or to select **Fill** (to fill the screen). You can press **▲ ▼ ◀ ▶** to pan the photo.
 - **EXIT** to return to the thumbnail index.
 - **MENU** to return to the *Photo* menu.

Viewing favorite photos

After you created your favorite photo list, you can browse among your favorite photos quickly.

To view favorite photos:

- 1 Switch to USB mode. See "[Switching to USB mode](#)" on page 47.
- 2 Press **MENU**. The on-screen menu opens.



- 3 Press ◀ or ▶ to highlight **PHOTOS**, then press **ENTER** or **OK/ENTER**. The *Photos* menu opens with **Photos** highlighted.



- 4 Press **ENTER** or **OK/ENTER**. The *Photos · Photos* menu opens.



- 5 Press ▲ or ▼ to highlight **Favorite Photos**, then press **ENTER** or **OK/ENTER**. A thumbnail index of your favorite photos opens with a control bar at the bottom of the screen.



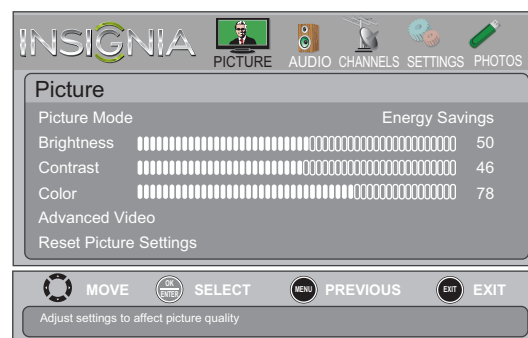
You select photos and navigate on the photo screen in the same way you do when you are browsing through photos. For more information, see "[Browsing photos](#)" on page 48.

Viewing photos in a slideshow

You can view your photos in a slideshow.

To view photos in a slideshow:

- 1 Switch to USB mode. See "[Switching to USB mode](#)" on page 47.
- 2 Press **MENU**. The on-screen menu opens.



- 3 Press ◀ or ▶ to highlight **PHOTOS**, then press **ENTER** or **OK/ENTER**. The *Photos* menu opens with **Photos** highlighted.



- 4 Press **ENTER** or **OK/ENTER**. The *Photos · Photos* menu opens.



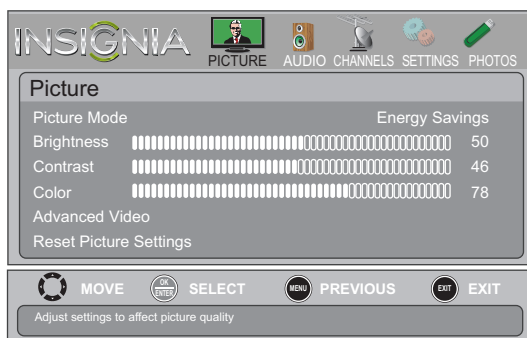
- 5 Press **▲** or **▼** to highlight **View Slideshow**, then press **ENTER** or **OK/ENTER**. A slideshow starts with the first photo in the current folder.
- 6 To control the slideshow, press:
- **ENTER** or **OK/ENTER** to pause or start the slideshow.
 - **EXIT** to exit the slideshow and return to thumbnail index.
 - **MENU** to go to the *PHOTO* menu.

Customizing slideshow settings

You can customize the slideshow settings, including **Repeat**, **Shuffle**, **Speed**, and **Transition**.

To customize slideshow settings:

- 1 Switch to USB mode. See "[Switching to USB mode](#)" on page 47.
- 2 Press **MENU**. The on-screen menu opens.



- 3 Press **◀** or **▶** to highlight **PHOTOS**, then press **ENTER** or **OK/ENTER**. The *Photos* menu opens with **Photos** highlighted.



- 4 Press **ENTER** or **OK/ENTER**. The *Photos · Photos* menu opens.



- 5 Press **▲** or **▼** to highlight **Settings**, then press **ENTER** or **OK/ENTER**. The *Photos · Photos · Settings* menu opens.



- 6 Press **▲** or **▼** to highlight an option, then press **ENTER** or **OK/ENTER**. You can select:
- **Repeat**—Repeats the slideshow when it reaches the end. You can select **On** or **Off**.
 - **Shuffle**—Displays the slideshow photos in random order. You can select **On** or **Off**.
 - **Speed**—Sets the amount of time a photo is displayed before the slideshow moves to the next photo. You can select **4 Sec**, **6 Sec**, or **8 Sec**.
 - **Transition**—Selects the way photos transition when moving to the next file in the slideshow. You can select:
 - **None**—No transition effect.
 - **Fade to Black**—Fades the screen to black between photos.
 - **Vertical Wipe**—Wipes the screen from top to bottom between photos.
 - **Horizontal Wipe**—Wipes the screen from left to right between photos.
 - **Random**—Randomly selects a transition effect.
- 7 Press **EXIT** to close the menu.

Maintaining

- Do not use your TV in areas that are too hot or too cold, because the cabinet may warp or the screen may malfunction. Your TV works best in temperatures that are comfortable to you.
- Storage temperatures are 32° to 122°F (0° to 50°C).

- Working temperatures are 41° to 104°F (5° to 40°C).
- Do not place your TV in direct sunlight or near a heat source.

Cleaning the TV cabinet

Clean the cabinet with a soft, lint-free cloth. If the cabinet is especially dirty, moisten a soft, lint-free cloth in a weak detergent solution, squeeze the excess moisture from the cloth, then wipe the cabinet with the cloth. Use a clean cloth to dry the cabinet.

Cleaning the TV screen


Clean the screen with a soft, lint-free cloth.

Troubleshooting

Warning

Do not try to repair your TV yourself. Contact authorized service personnel.

Video and audio

Problem	Solution
Picture does not fill the screen. There are black bars around the picture.	<ul style="list-style-type: none"> • Change the aspect ratio. An increasing amount of digital TV and movies are presented in wide screen (16:9). See "Aspect ratio options" on page 29.
No picture (screen is not lit) and no sound.	<ul style="list-style-type: none"> • Press  on the TV or the remote control. • Make sure that the Audio Only option is set to Off. See "Playing TV audio only" on page 32. • Make sure that the video cables are connected securely to your TV. • Adjust the contrast and brightness. See "Adjusting the TV picture" on page 28. • Make sure that the power cord is plugged in. • Make sure that the correct video input source is selected. See "Selecting the video input source" on page 26. • Try another channel. The station may be experiencing problems. • Make sure that the incoming signal is compatible. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. • Check the closed caption settings. Some TEXT modes can block the screen.

Problem	Solution
Dark, poor, or no picture (screen is lit), but sound is good.	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. • Adjust the brightness. See "Adjusting the TV picture" on page 28. • Make sure that the correct picture mode is selected. See "Adjusting the TV picture" on page 28. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. • Make sure that the video cables are connected securely to your TV. • The video cable(s) you are using may be bad. Try a new set. • Try another channel. The station may be experiencing problems.
No color, dark picture, or color is not correct.	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • Adjust the color settings. See "Adjusting the TV picture" on page 28. • Make sure that the video cables are connected correctly and securely to your TV. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
Only snow (noise) appears on the screen.	<ul style="list-style-type: none"> • Try another channel. The station may be experiencing problems. • Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. • If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35. • If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier.
Picture quality is good on some channels and poor on others. Sound is good.	<ul style="list-style-type: none"> • The problem may be caused by a poor or weak signal from the broadcaster or cable TV provider. • If you connect to cable or satellite TV without a set-top box and experience poor picture quality, you may need to install a set-top box to improve signal reception and picture quality. Contact your cable or satellite TV provider about upgrading to a set-top box.

Problem	Solution
Dotted lines or stripes appear on the screen.	<ul style="list-style-type: none"> Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35. If you are using an antenna and the signal strength is low, adjust the antenna or use a highly directional outdoor antenna or set-top antenna with a built-in amplifier. Make sure that the video cables are connected securely to your TV. The video cable(s) you are using may be bad. Try a new set. Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
Double images.	<ul style="list-style-type: none"> Use a highly directional outdoor antenna, cable TV, or satellite TV.
The picture has a few bright or dark spots.	<ul style="list-style-type: none"> A few bright or dark spots on an LCD screen is normal. It does not affect the operation of your TV.
Good picture, but no sound.	<ul style="list-style-type: none"> Increase the volume. Make sure that the sound is not muted. Make sure you do not have headphones connected. When headphones are connected, no sound comes from the TV speakers. Make sure that the correct audio mode is selected. Make sure that the audio cables are connected correctly and securely to your TV. Make sure that the antenna or cable TV is connected correctly and securely. See "Connecting a cable or satellite box" on page 13 or "Connecting an antenna or cable TV (no box)" on page 16. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35. The audio cable(s) you are using may be bad. Try a new set.
Poor picture.	<ul style="list-style-type: none"> Make sure that the room is not too bright. Light reflecting off the screen can make the picture difficult to see. If an S-VHS camera or a camcorder is connected while another connected device is turned on, the picture may be poor. Turn off one or more devices.
Good sound but poor color.	<ul style="list-style-type: none"> Adjust the contrast, color, and brightness settings. See "Adjusting the TV picture" on page 28.
Audio noise.	<ul style="list-style-type: none"> Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.

Problem	Solution
No output from one of the speakers.	<ul style="list-style-type: none"> Adjust the audio balance. See "Adjusting sound settings" on page 31. Make sure that the audio cables are connected correctly and securely to your TV.
After images appear.	<ul style="list-style-type: none"> Do not display a still image, such as a logo, game, or computer image, for an extended period of time. This can cause a permanent after-image to be burned into the screen. This type of damage is not covered by your warranty.

Remote control

Problem	Solution
Remote control does not work.	<ul style="list-style-type: none"> Make sure that the power cord is correctly connected to your TV and a power outlet. Make sure that there are no obstructions between the remote control and the remote control sensor on the front of the TV. Point the remote control directly at the remote control sensor on your TV. For the location of the remote control sensor, see "Aiming the remote control" on page 23. The supplied batteries are wrapped tightly in clear plastic. Make sure that you have removed this plastic from the batteries. Make sure that the batteries are installed correctly. See "Installing remote control batteries" on page 23. Replace dead batteries with new batteries. See "Installing remote control batteries" on page 23.
Trouble programming your existing universal remote control.	<ul style="list-style-type: none"> See instructions and a table of common codes in "Programming a different universal remote control" on page 57. Codes are subject to change. For up-to-date codes, go to www.insigniaproducts.com/remotecodes. Replace dead batteries with new batteries. See "Installing remote control batteries" on page 23. Refer to the User Guide that accompanied your universal remote control and contact the manufacturer if problems persist.

General

Problem	Solution
No power.	<ul style="list-style-type: none"> Make sure that the power cord is correctly connected to your TV and a power outlet. Unplug the power cord, wait 60 seconds, then plug the cord back in and turn on your TV. Other devices (for example, a surround sound receiver, external speakers, fans, or hair dryers) may be interfering with your TV. Try turning off one device at a time to determine which device is causing interference. After you have determined which device is causing interference, move it further from the TV to eliminate the interference.
"No signal" error message is displayed.	<ul style="list-style-type: none"> Press INPUT and make sure that you have selected the correct input for the device or service you are trying to use. If you are using a cable or satellite box, use the remote that came with that box to change channels. Make sure that you have the correct input selected to view channels from the cable or satellite box.

Problem	Solution
After Auto Channel Search, there are no channels.	<ul style="list-style-type: none"> Reception can vary by channel depending on the broadcast power level of a given station. Contact your cable or satellite TV provider. Make sure the antenna or cable/satellite TV is connected securely to your TV. Try replacing the cable between the antenna/cable or cable/satellite box and your TV.
One or more channels do not display.	<ul style="list-style-type: none"> Make sure that the channels are not blocked. See "Setting parental control levels" on page 38. Make sure that the channels are not hidden. The channel may have been deleted from the channel list. You can tune to the channel by pressing the number buttons or you can add the channel back to the channel list. See "Hiding channels" on page 33. If you are using a cable or satellite box, use the remote that came with that box to change channels. Make sure that you have the correct input selected to view channels from the cable or satellite box. If you are using an antenna, the digital channel signal may be low. To check the digital channel signal strength, see "Checking the digital signal strength" on page 35.
Password is lost.	<ul style="list-style-type: none"> Enter 9999 to access parental controls, then set a new password. See "Setting or changing the password" on page 35.
Some settings cannot be accessed.	<ul style="list-style-type: none"> If a setting is grayed, the setting is not available in the current video input mode.
TV cabinet creaks.	<ul style="list-style-type: none"> When the TV is in use, the temperature rises naturally and may cause the cabinet to expand or contract which can cause a creaking noise. This is not a malfunction.
Control buttons do not work.	<ul style="list-style-type: none"> Make sure that the Button Lock option is set to Off. See "Locking control buttons" on page 36. Unplug the power cord, wait a few seconds, then plug the cord back in and turn on your TV.
TV keeps turning off.	<ul style="list-style-type: none"> Make sure that the sleep timer is not turned on. See "Setting the sleep timer" on page 43.

Note: If the problem is not solved by using these troubleshooting instructions, turn off your TV, then turn it on again.

Specifications

Specifications are subject to change without notice.

Dimensions and weight

Without stand	38.5 × 24.28 × 1.38 in. (97.8 × 61.7 × 3.5 cm) 28.2 lbs. (12.8 kg)
With stand	38.5 × 26.2 × 9.25 in. (97.8 × 66.5 × 23.5 cm) 30.9 lbs. (14 kg)

Screen

Screen size measured diagonally	42 in.
Display type	LED
Panel 60 Hz vs. 120 Hz	120Hz
Display resolution	1080p
Panel resolution	1920 (H) × 1080 (V)
Aspect ratio	16:9
Contrast ratio (typical)–panel	3000:1
Dynamic contrast ratio–list value	70000:1
Brightness (center typical) cd/m2	350 nits

Comb filter	3d y/c digital
Response time	6.5 ms
Horizontal viewing angle	178
Vertical viewing angle	178

Display resolutions

HDMI	1080p, 1080i, 720p, 480p, 480i
Component video	1080i, 720p, 480p, 480i

Tuner

Analog	NTSC
Digital	ATSC, 8-VSB, Clear-QAM

Inputs

HDMI	3 (side) E-EDID compliant HDCP compliant
Component video	1 (back)
Composite video	1 (back)
Shared audio (component and composite)	Yes
S-Video	No
PC/VGA	1 (back)
3.5mm PC audio input	1 (side)
DVI	1 (side) (HDMI 1/DVI jack)
USB	1 (side) Support JPEG and firmware upgrade

Outputs

Video	No
Analog audio/headphone	1 (side)
Digital audio	1 optical (back)
WiFi	No
Ethernet	No

Audio

Speakers	Number: 2 Watts per channel: 10W
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Power

Power consumption	On: 80W Standby: <1W
Power input	120V/60Hz

Miscellaneous

OSD languages	English, French, Spanish (all models)
INlink	Yes
Game Mode	Yes
ENERGY STAR qualified	No
Internet connectable	No
TV base screws	M4 type (12 mm length) (4 pcs)
V-Chip (version 2.0)	Yes
Sleep timer	Yes
Channel labeling	Yes
VESA mount (mm) (horizontal × vertical)	400 × 400

Note

The length of the wall-mount screws vary depending on the wall-mount bracket you purchased. See the instructions that came with the wall-mount bracket for screw lengths.

Programming remote controls

Programming your universal Insignia remote control

To program your remote to control home theater devices, follow these steps.

To program your remote control:

- 1 Find the codes for the devices you want to program in "Manufacturers' codes" on page 58 and write them down or highlight them.
- 2 Turn on the device (for example, a DVD player) and, if needed, load media such as a DVD.
- 3 Press the device button on the TV remote for the device that you want to program (**TV**, **DVD**, **STB**, or **AUX**).
- 4 Press and hold **SET** until the red LED blinks twice, then release.
- 5 Enter the first five-digit code for the device and brand that you want to program. The LED blinks once as each digit is entered. If the code is valid, the LED blinks twice.

Note

If the LED does not blink twice, repeat steps 2 to 4 and try entering the code again.

- 6 Aim the remote at the device and press \odot (power). The device should turn off. If it does not, repeat Steps 3 through 5, trying each code for your brand until you find one that works. If you cannot find a code that works, see "Searching for your code" below.
- 7 Repeat Steps 1 to 5 for the other devices you want to control. For future reference, write down each working device code.

Searching for your code

If your device does not respond to the remote control after trying all codes listed for your brand, or if your brand is not listed, try searching for your code.

To search for your code:

- 1 Turn on the device you want to control.
- 2 Press the device button on your TV remote control (**TV**, **DVD**, **STB**, or **AUX**) once.
- 3 Press and hold **SET** until the red LED blinks twice, then release.
- 4 Enter **9 9 1**. The LED blinks twice.
- 5 Press the number that matches your device type.
 - **0**—Cable converters, video accessories, satellite receivers
 - **1**—TVs
 - **2**—VCRs, DVD players, Blu-ray Disc players
 - **3**—Audio amplifiers, audio amplifiers/tuners, CD players

- 6 Aim the remote at the device and press \odot (power). The remote sends IR codes from its library to the selected device, starting with the most popular code first. If the device responds, go to Step 8.
- 7 If the device does not respond, press **CH ▲** and the remote tests the next code for that device type. Continue to press **CH ▲** until the device turns off.

Note

Press **CH ▼** to try the previous code.

- 8 Now that you have found the correct code, press **SET** to save the code that worked for your device. The LED blinks twice to indicate that the code has been saved.
- 9 To search for other device codes, repeat Steps 1 to 8.

Checking the codes

If you have set up the remote using the procedure in "Searching for your code" on page 54, you may need to find out which five-digit code is operating your equipment.

To find out which code is assigned to your TV (for example):

- 1 Press **TV** once.
- 2 Press and hold **SET** until the red LED blinks twice, then release.
- 3 Enter **9 9 0**. The LED blinks twice.
- 4 To view the code for the first digit, press **1**. Count the red LED blinks (for example, three blinks = 3), then write down the number in the appropriate code listing at the top of this column.

Note

If the LED does not blink, the code digit is 0.

- 5 Repeat Step 4 for the four remaining digits, using **2** for the second digit, **3** for the third digit, **4** for the fourth digit, and **5** for the fifth digit.
- 6 To check for other device codes, repeat Steps 1 through 5, substituting the device button for the device you would like to check.

Using learning

This universal remote control includes a learning feature so you can add functions that are unique to your home entertainment devices (such as VCR Tracking Up or Down). However, there are some considerations to keep in mind.

Precautions

- Your original remote controls must be in working order for learning to work properly.
- Learned buttons are mode-specific, so each one can store a unique function for each mode.
- Do not use the following buttons for learning: **Device** Buttons, **SET**, or \bullet (record).
- Learning capacity is approximately 42 to 75 buttons, depending on the code being learned.
- Certain device functions are not learnable, including multi-frequency types, some high frequency functions, and other unusual formats.

- For optimum learning, avoid high levels of ambient light such as natural sunlight or energy-efficient fluorescent lights.

Note

Have your original remote controls handy before programming learning.

Programming a learned button**To program a learned button:**

- 1 Place your Insignia remote control head-to-head (about 2" apart) from your original remote control (the one that came with the device).
- 2 Locate the button on your original remote control that you want the Insignia remote control to learn. Press the mode button you want to learn functions on.
- 3 Press and hold **SET** until the LED blinks twice, then release.
- 4 Enter **9 7 5**. The LED blinks twice.

Note

If more than 10 seconds pass between button presses, the remote exits programming. If the LED displays one long flash instead, replace the batteries. If the remote control continues to display one long flash, the remote control cannot learn a new button.

- 5 Press the button on the Insignia TV remote you want to program. The feedback LED stays lit for three seconds, indicating that the remote is ready to learn.
- 6 On the original remote, press and hold the button to be learned. Continue holding the button on the original remote until the Insignia's LED blinks twice.

Note

If the red LED displays one long blink, a learning error has occurred. Try repeating this step again until a successful capture occurs. If the function is still not captured, press and hold **SET** to exit programming and review the Precautions" above. After reviewing, start programming again at Step 1.

- 7 Repeat Steps 4 and 5 to program another button. Once you have completed programming all the buttons you want, press and hold **SET** until the LED blinks twice to save all data learned.

Deleting a single learning button

This process returns the button to its original programming for the mode you select. You can also delete learned programming by teaching a different function to the button (see "Programming a Learned Button" above).

Note

If more than 10 seconds pass between button presses, the remote exits programming. If the LED displays one long flash instead, replace the batteries. If the remote control continues to display one long flash, the remote control cannot learn a new button.

To delete a single learned button:

- 1 Press the mode button that you want to remove the learned button from.

- 2 Press and hold **SET** until the LED blinks twice, then release.
- 3 Enter **9 7 6**. The LED blinks twice.
- 4 Press the button containing the learned function to be deleted, twice. The LED blinks twice and programming ends.

Deleting all learned buttons in a specific mode**Note**

If more than 10 seconds pass between button presses, the remote exits programming. If the LED displays one long flash instead, replace the batteries. If the remote control continues to display one long flash, the remote control cannot learn a new button.

To delete all learned buttons in a specific mode:

- 1 Press and hold **SET** until the LED blinks twice, then release.
- 2 Press **9 7 6**. The LED blinks twice.
- 3 Press a mode button twice (for example, **TV**, **DVD**, **STB**, or **AUX**) to clear all the learned buttons for that mode. The LED blinks twice and programming ends.

Changing the volume lock

Volume Lock sets the volume and mute buttons to the device you select, regardless of what mode you are in. For example, if you lock the volume to your DVD player and then go to TV mode, when you press the volume button on your Insignia remote, the volume will change on the DVD player and not on your TV.

To lock the volume control:

- 1 Press and hold **SET** until the red LED blinks twice, then release.
- 2 Enter **9 9 3**, the LED blinks twice.
- 3 Press the mode button for the device you want to control (for example, TV).
- 4 The LED blinks twice. Now when you press **VOL+**, **VOL-**, or **Mute**, the selected device controls the volume regardless of the current mode.

To unlock all volume control:

- 1 Press and hold **SET** until the red LED blinks twice, then release.
- 2 Enter **9 9 3**, the LED blinks twice.
- 3 Press **VOL+**. The LED blinks four times. Volume is independently controlled for all programmed devices.

To unlock a single device's volume control:

- 1 Press the device mode button (**TV**, **DVD**, **STB**, or **AUX**).
- 2 Press and hold **SET** until the red LED blinks twice, then release.
- 3 Enter **9 9 3**. The LED blinks twice.
- 4 Press **VOL-**. The red LED blinks four times. Volume is independently controlled for the selected devices.

Programming channel lock

Channel control can be locked so that the Insignia remote controls a single device's channel-changing functions, regardless of operating mode. This is often enabled by users who watch all broadcast TV through one device, such as a cable set-top box. The affected buttons are **1** through **0**, **CH ▲**, **CH ▼**, and **RECALL**.

To lock all channel controls to one device:

- 1 Press the mode button for the device that you want to use for changing channels, such as STB for your cable set top box.
- 2 Press and hold **SET** until the mode LED blinks twice, then release.
- 3 Enter **9 7 3**. The mode LED blinks twice.
- 4 Press **CH ▲** once. The mode LED blinks twice.

Now, regardless of what mode you select, the channel buttons will only change channels on the assigned device.

To unlock channel locks:

- 1 Press and hold **SET** until the mode LED blinks twice, then release.
- 2 Enter **9 7 3**. The mode LED blinks twice.
- 3 Press **CH ▼** once. The mode LED blinks four times.

Now the channel functions will correlate to the active mode (for example, press **CH ▲** in TV mode and the TV changes channel accordingly).

Using buttonmover

Your Insignia universal remote control includes a buttonmover feature that lets you copy buttons from one mode (such as source mode) to another mode (such as destination mode) or to a different button in the same mode.

Note

Do not use any of the Device Buttons,  (power), **RECORD**, or **SET** as a source or destination button.

To move buttons in the same device mode:

- 1 Press the device button (**TV**, **DVD**, **STB**, or **AUX**).
- 2 Press and hold **SET** until the LED blinks twice, then release.
- 3 Press **9 9 4**. The LED blinks twice.
- 4 Press the button you want to move.
- 5 Press the new button that should perform the function. The LED blinks twice.
- 6 Repeat Steps 1-5 to move additional buttons.

To move buttons to a different device mode:

- 1 Press and hold **SET** until the LED blinks twice, then release.
- 2 Press **9 9 4**. The LED blinks twice.
- 3 Press the device button that contains the function you want to move (for example, **DVD**).
- 4 Press the button you want to move (such as **Play**).
- 5 Press the device button that you want to move the function to (such as **TV**).

- 6 Press the button in the new mode that should perform the function (for example, **Play**). The LED blinks twice.
- 7 Repeat Steps 1-6 to move additional buttons.

To restore all buttonmoved data in a specific mode:

- 1 Press and hold **SET** until the LED blinks twice, then release.
- 2 Press **9 9 4**. The LED blinks twice.
- 3 Press the device button you want to remove all buttonmoved data from twice. The LED blinks twice.
- 4 Repeat for each device you want to restore.

To restore original button function:

- 1 Press the device button for which you want to remove the buttonmoved data from a specific button.
- 2 Press and hold **SET** until the LED blinks twice, then release.
- 3 Enter **9 9 4**. The LED blinks twice.
- 4 Press the button you want to remove the buttonmoved data from twice. The LED blinks twice.
- 5 Repeat Steps 1-4 for additional buttons you want to remove.

Programming macros

Your Insignia universal remote control includes the ability to program any button (other than the **SET** button) with a macro function. Each one can be set up to perform a pre-programmed set of sequential button presses with the press of a single button. A macro can be used to control a home theater operation, to set a favorite channel, or for other functions you would like to control with one button press. Each macro button can hold up to 15 button presses, total.

Note

Programming a new macro over an existing one erases the original macro.

To program a mode-independent macro:

- 1 Press and hold **SET** until the red LED blinks twice, then release.
- 2 Press **9 9 5**. The LED blinks twice.
- 3 Press the button you want to assign to a macro.
- 4 Enter the series of commands you want the macro to execute (up to 15 commands).
- 5 Press and hold **SET** until the red LED blinks twice, then release.

Now, when you press the preset macro button, the remote sends the series of commands you have entered, regardless of what mode you are in. For example, you could program a macro button to turn on both your TV and cable box and select a particular channel.

Note

To clear the macro, repeat Steps 1-5, but do not enter a series of commands at Step 4.

To program a mode-dependent macro:

- 1 Press the device mode button (**TV, DVD, STB, or AUX**).
- 2 Press and hold **SET** until the LED blinks twice, then release.
- 3 Press **9 7 8**. The LED blinks twice.
- 4 Press the button you want to assign to a macro.
- 5 Enter the series of commands you want the macro to execute (up to 15 commands).
- 6 Press and hold **SET** until the red LED blinks twice, then release.

Now, when you press the macro button, the remote sends the series of commands you have entered, but only if you are in the mode you selected in Step 1. For example, you could program the macro button to turn on both your TV and cable box and select a particular channel, but only if you are in TV mode. If you are in DVD mode, this button does not execute the macro you set up in TV mode.

Note

To clear the macro, repeat Steps 1-6, but do not enter a series of commands at Step 5.

Programming a different universal remote control

You can operate your Insignia TV with a new or existing universal remote control.

To program a different universal remote control:

- 1 See the table in "[Common universal remote control codes](http://www.insigniaproducts.com/remotecodes)" for common codes. If you have problems programming your remote or need a different remote control code, visit www.insigniaproducts.com/remotecodes for the latest remote control code information.
- 2 Follow your universal remote control's instructions to enter the TV code you found in Step 1.

Tips

- If your universal remote control has a code search feature, run a code search to identify a code that matches your TV. See your universal remote control's instructions for details.
- If your universal remote control has a "Learn" feature, you can manually program it using the Insignia TV remote to "teach" the commands one at a time. See your universal remote control's instructions for details.

For additional help and information:

- Visit: <http://www.insigniaproducts.com/remotecodes>
- Call technical support for the universal remote control or cable/satellite company of the remote/set-top box you are trying to program.
- Call the Insignia Customer Care Center 1-877-467-4289.

Common universal remote control codes

The following is a list of the most common remote control codes. Codes for other remote controls are available online at: <http://www.insigniaproducts.com/remotecodes> or check with your cable or satellite TV provider for the remote control code.

Insignia TV codes for universal remote controls (for all Insignia TVs manufactured after Jan. 1, 2007)

Universal remote control makes and models	
One for All	0054
Phillips	0198, 0490
RCA	135
Sony	068, 069, 078, 096, 100, 164, 168, 229, 026

Set-top box makes and models	
Cablevision	068, 069, 078, 096, 100, 164, 168, 229, 026
Charter	2002, 1204, 1423, 1517, 0171, 1963, 0463, 1463, 0842, 1326, 167, 415, 424, 450, 456, 461, 507, 523, 567, 577, 586
Comcast	10171, 11204, 11326, 11463, 11517, 11641, 11780, 11785, 11892, 11963, 12002
Cox	1326, 1463
DirectTV	10171, 11204, 11326, 11517, 11564, 11641, 11963, 12002
Dish Network	720
Time Warner	400, 450, 461, 456, 10463, 1463, 0463
TiVo	0091
Verizon	0198, 0490

Tips

- The brand name is often visible on the front of the universal remote control, and the model number is often visible on the back.
- If your universal remote control isn't listed on the chart, refer to your universal remote control's instructions and try codes for the brands Orion, Emerson, Memorex, Sansui, Sylvania, or Zenith. You may need to try several codes before finding a match.

Manufacturers' codes

Audio amplifiers

Audio amplifiers	
Adcom	30577, 31100
Anthem	32220
Bose	30674
Carver	30892
Durabrand	31561
Elan	30647
GE	30078
Harman/Kardon	30892
JVC	30331
Left Coast	30892
Lenox	31561
Marantz	30892
McIntosh	30251
Modulaire	30395
NEC	30264
Optimus	30395, 30823
Philips	30892
Pioneer	30823
Polk Audio	30892
RadioShack	30395
RCA	30823
Realistic	30395
Shure	30264
Sony	30689, 30815
Soundesign	30078
Victor	30331
Wards	30078
Yamaha	30354, 30133

Audio accessories

Audio accessories	
Accurian	31106
Altec Lansing	30607, 31056
Apple	31115
Creative	30872
DLO	31155
GPX	32113
Griffin	31891
iDeck	31106
iHome	32152
iLive	32113
Imerge	31491
iPort	31917
Klipsch	31339
Marantz	31491
Memorex	32119
Monitor Audio	31106
Motorola	31464
Omnifi	31605
Roku	31828
Sonance	31917
Yamaha	31809, 31810, 32021

Audio receivers

Audio receivers	
ADC	30531
Adcom	30616
Aiwa	31405, 30189, 30121, 31089, 31388, 31641
Akai	30244, 31512
Alco	31390
AMC	31077
Amphion Media Works	31563
AMW	31563
Anam	31609, 31074
Anthem	31185
Apex Digital	31257, 31430, 31774
Arcam	31189
Audiotronic	31189
Audiovox	31390
B & K	30702, 30820, 30840
BK	30702
Bose	31229, 30639, 31253, 31629, 31841, 31933
Cairn	30189
Cambridge Soundworks	31370
Capetronic	30531
Carver	31189, 30189, 30121, 31089, 31289
Coby	31389
Curtis Mathes	30014
Daewoo	31250
Denon	31360, 30121, 31104, 31142, 31306, 32857
Emerson	30531
Fisher	31801
Garrard	30463
Grundig	30189
Harman/Kardon	30110, 30189, 30891, 31289, 31304, 31306, 32241
Hitachi	31273, 31801
iLive	32013
Inkel	30491
Insignia	31030, 31077, 31893, 32169, 32175
Integra	30135, 30842, 31298, 31320, 31805
iSymphony	32258
JBL	30110, 31306
JVC	31058, 30074, 31374, 31495, 31871, 32239
Kawasaki	31390
Kenwood	31313, 31570, 30077, 30186, 31027
KLH	31390, 31412, 31428
Koss	31366, 31497
Lexicon	31076
LG	31293, 32197
Linn	30189
Liquid Video	31497
Magnavox	31189, 31269, 30189, 30391, 30531, 31089, 31266, 31514
Marantz	31189, 31269, 30189, 30891, 31089, 31289
McIntosh	31289
Micromega	31189, 30189
Mitsubishi	31393
Musicmagic	31089
Myryad	31189
Nakamichi	31313, 30097, 31555
Norcent	31389

Audio receivers	
Nova	31389
Onkyo	30135, 30842, 31298, 31320, 31531, 31805, 31905
Optimus	31023, 30074, 30014, 30121, 30186, 30531, 31074
Oritron	31366, 31497
Outlaw	30391
Panasonic	31308, 31518, 30367, 31275, 31288, 31316, 31548, 31633, 31763, 31764
Philips	31189, 31269, 30189, 30391, 30891, 31089, 31266
Pioneer	31023, 30014, 30150, 30244, 30531, 30630, 31123, 31384, 31935
Polaroid	31508
Polk Audio	30189, 31289
Proscan	31254
RadioShack	31609
RCA	31023, 31609, 31254, 30531, 31074, 31123, 31390, 31511
Realistic	31609, 30121, 30186
Revox	30189
Rio	31869
Samsung	31295, 31304, 31500
Sangean	32165
Sansui	31189, 30189, 31089
Sanyo	31251, 31469, 31801
Sharp	30186, 31286
Sharper Image	31556
Sherwood	30491, 31077, 31653, 31905, 32169
Sherwood	Newcastle 32169
Sonic Blue	31869
Sonic Frontiers	31185
Sony	31058, 31441, 31258, 31759, 31622, 30474, 31158, 31406, 31558, 31658, 31758, 31822, 31858
Stereophonics	31023
Sunfire	31313
Teac	30463, 31074, 31390, 31528
Technics	31308, 31518, 31633
Thorens	31189
Toshiba	30135, 30842, 31123, 31788
Venturer	31390
Victor	30074
Wards	30189, 30014
XM	31406
Yamaha	31023, 30176, 30186, 30376, 31176, 31276, 31331, 31375, 31376, 31476, 31815, 32061
Zenith	30857, 31293

Cable converters

Cable converters	
A-Mark	00008, 00144
ABC	00237, 00003, 00008
Accuphase	00003
Acorn	00237
Action	00237
Active	00237
ADB	02586
Americast	00899
Amino	01602, 01822

Cable converters	
Archer	00237
BCC	00276
Bell South	00899
British Telecom	00003
Century	00008
Cisco	01877, 00877, 01982
Clearmaster	00883
ClearMax	00883
Cool Box	00883
Coolmax	00883
Digeo	01187, 02187
Director	00476
Fosgate	00276
GE	00144
General Instrument	00476, 00810, 00276, 00003
Gibralter	00003
GMI	00883
GoldStar	00144
Hamlin	00009, 00273
Hitachi	00003, 00008, 00009
i3 Micro	01602
Insight	00476, 00810
Jerrold	00476, 00810, 00276, 00003
Memorex	00000
Mitsubishi	00003
Motorola	01376, 00476, 00810, 00276, 01187, 01106, 01982
Multitech	00883
Myrio	01602, 01822
Nova Vision	00008
Novaplex	00008
Pace	01877, 00877, 00237, 00008, 01982
Panasonic	00000, 00008, 00144, 00107, 01982
Paragon	00000, 00008, 00525
Penney	00000
Philips	01305, 00317
Pioneer	01877, 00877, 00144, 00533
Pulsar	00000
Quasar	00000
RadioShack	00883
RCA	01256
Regal	00276, 00279, 00273
Runco	00000
Samsung	00003, 00144, 01982
Scientific Atlanta	01877, 00877, 00477, 00237, 00003, 00000, 00008, 01982
Sejin	01602
Sony	01006
Sprucer	00144
Starcom	00003
Supercable	00276
Supermax	00883
Thomson	01256

Cable/PVR combos

Cable/PVR combos	
Americast	00899
Amino	01822
Cisco	01877, 01982
Digeo	01187, 02187
General Instrument	00810
Jerrold	00810
Motorola	01376, 00810, 01187, 01106, 01982
Myrio	01822
Pace	01877, 00237, 01982
Pioneer	01877
RCA	01256
Scientific Atlanta	01877, 01982
Sony	01006
Supercable	00276
Thomson	01256
Zenith	00899

CD players

CD players	
Acoustic Research	30420
Aiwa	30157
Arcam	30157
Audio Research	30157
Burmester	30420
Cairn	30157
California Audio Labs	30029
Cambridge Soundworks	30157
Carver	30157
Curtis Mathes	30032
Denon	30034
DKK	30000
DMX Electronics	30157
Fisher	30000
Garrard	30393, 30420
Genexxa	30032
Grundig	30157
Hafler	30173
Harman/Kardon	30100, 30157, 30173
Hitachi	30032
Inkel	30157, 30180
Integra	30101
JVC	30032, 30072
Kenwood	30626, 30000, 30029, 30028, 30190
KLH	31318, 31711
Krell	30157
Linn	30157
Magnavox	30157, 30038, 30274
Marantz	30626, 30029, 30157, 30038, 30180, 30435
Matsui	30157
McIntosh	30256, 30290, 30660
MCS	30029
Memorex	30000, 30032, 30420
Micromega	30157
Miro	30000
Mission	30157
Modulaire	30000, 30032, 30087, 30180, 30420
MTC	30420

CD players

Myryad	30157
NSM	30157
Onkyo	31327, 30101
Optimus	30000, 30032, 30087, 30393, 30420
Panasonic	30029, 30388, 30752
Parasound	30420
Penney	30029
Philips	30626, 30157, 30274
Pioneer	31062, 30032, 31087
Polk Audio	30157
Proceed	30420
Proton	30157
QED	30157
Quad	30157
Quasar	30029
RadioShack	30000, 30032, 30180, 30420
RCA	31062, 30032, 30053, 30420
Realistic	30000, 30032, 30087, 30180, 30420
Revox	30157
Roksan	30435
Rotel	30157, 30420
SAE	30157
Sansui	30000, 30157
Sanyo	30000, 30087
Sharp	30180
Sherwood	30180
Sonic Frontiers	30157
Sony	30490, 30000, 30100, 31364, 30185
Sugden	30157
Sylvania	30157
Symphonic	30180
TAG McLaren	30157
Tandy	30032
Tascam	30393, 30420
Teac	30490, 30180, 30393, 30420
Technics	30029
Thule Audio	30157
Victor	30072
Wards	30032, 30157, 30053, 30087
Yamaha	30490, 30036, 31292
Yorx	30000

DVD players

DVD players	
3D LAB	20503, 20539
Accurian	20675, 21072, 21416
Advent	21016
Afreedy	20698
Aiwa	20641
Akai	20695, 20705, 20770, 20899, 21089
Alba	20672, 20717
Alco	20790
Allegro	20869
Amphion Media Works	20872
AMW	20872
Apex Digital	20533, 20672, 20717, 20755, 20794, 20796, 20797, 20830, 21004, 21020, 21056, 21061, 21100

DVD players	
Arrgo	21023
Aspire Digital	21168, 21407
Astar	21489
Audiovox	20717, 20790, 21041, 21071, 21072, 21121, 21122
Axion	21071, 21072
B & K	20655, 20662
BBK	21224
Bel Canto Design	21571
Blaupunkt	20717
Blue Parade	20571
Blue Sky	20695
Bose	21895, 22023
Brandt	20651
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Disney	20675, 21270
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Insignia	21268
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JBL	20702
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JMB	20695
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LG	20591, 20741, 20869
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Marantz	20503, 20539, 20675
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Medion	20651
Memorex	20695, 20831, 21270
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Mintek	20839, 20717
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Nesa	20717
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Sylvania	20675, 20821, 21268
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Teac	20571, 20717, 20790
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DVD players (Blu Ray and HD-DVD)	
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LG	20741
Microsoft	22083
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Panasonic	21641
Philips	22084
Pioneer	20142
RCA	21769
Samsung	20199
Sharp	22250
Sony	21516
Toshiba	21769
Xbox	22083

DVD/PVR combos controlled by the DVD

DVD/PVR combos controlled by the DVD	
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Panasonic	20490
Philips	21340
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RCA	20522
Sharp	21256
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Sylvania	20675
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Home automation	
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Bonaire	30846, 31215, 31861
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Draper	32190
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GE	30240
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Holmes	31215
Kenmore	31537
Lasko	30846, 31890
LG	31537
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DVR/PVR systems for satellite receivers

SKY	00099
Sony	00639, 01639, 01640
Star Choice	00869
Star Trak	00772, 00869
Thomson	00392, 00566
Tivo	01142, 01442, 01443, 01444
Toshiba	00749, 01749, 00790, 01285
UltimateTV	01392, 01640
Ultrasat	01806
Uniden	00722
Voom	00869
Zenith	01856

DVR/PVR Systems for satellite receivers**DVR/PVR systems for satellite receivers**

AlphaStar	00772
Bell ExpressVu	00775, 01170
Chaparral	00216
Coolsat	01806
Crossdigital	01109
DirecTV	01377, 00392, 00566, 00639, 01639, 01142, 00247, 00749, 01749, 00819, 01856, 01076, 01108, 00099, 01109, 01392, 01414, 01442, 01443, 01444, 01609, 01640
Dish Network System	01505, 00775, 01170, 01775
Dishpro	01505, 00775, 01775
Echostar	01505, 00775, 01170, 01775
Expressvu	00775, 01775
Fortec Star	01821
Funai	01377
GE	00392, 00566
General Instrument	00869
GOI	00775, 01775
Hitachi	00749, 00819
Houston	00775
HTS	00775, 01775
Hughes Network Systems	01142, 00749, 01749, 01442, 01443, 01444
Humax	01790
Innova	00099
Jerrold	00869
JVC	00775, 01170, 01775
LG	01226, 01414
Magnavox	00722
McIntosh	00869
Mitsubishi	00749
Motorola	00869
Netsat	00099
Next Level	00869
Panasonic	00247, 00701
Pansat	01807
Philips	01142, 00749, 01749, 00775, 00819, 01076, 00722, 00099, 01442
Primestar	00869
Proscan	00392, 00566
RadioShack	00566, 00775, 00869
RCA	00392, 00566, 01142, 00775, 00855, 00143, 01392, 01442
Samsung	01377, 01142, 01276, 01108, 01109, 01442, 01609

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Admiral	10047, 10054, 10017, 10051, 10093, 10463, 10180
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Adventuri	10000
Agna	10150
Aiko	10092
Akai	10060, 10812, 10702, 10030, 10145, 10056, 10672, 11675, 11676, 11935
Albatron	10700, 10843
Alfide	10672
Alleron	10030
Ambassador	10150, 10177
America Action	10180
American High	10000, 10060
Ampro	10751
Amstrad	10171, 10177
Amtron	10000, 10180
Anam	10180
AOC	10180, 10030, 11365
Aomni	11623
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Conic	10178
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Craig	10180, 10171
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Crown Mustang	10672
Curtis Mathes	10047, 10054, 10154, 10000, 10051, 10451, 10093, 10180, 10060, 10702, 10178, 10030, 10145, 10166, 10056, 10466, 11147, 11347
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Daytron	10178, 10030, 10092, 10056
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Emerald	10178, 10177
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Envision	10030, 10813, 11365
Epson	10833, 10840
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Fisher	10054, 10154, 10000
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Gateway	11756, 11755
GE	11447, 10047, 10000, 10051, 10451, 10060, 10178, 10030, 11147, 11347
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Gradiente	10053, 10056
Grundig	10706, 10672, 10683
Grundy	10180
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Haier	11034
Hallmark	10236, 10180, 10178
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HP	11494, 11502, 11642
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iLo	11286, 11603, 11684, 11990
Ima	10236, 10180, 10178
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InFocus	11164
Initial	11603, 11990
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Jutan	10030
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KLH	10156, 10180, 10765, 10767
Kloss	10030
Konka	10180, 10720
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LG	10054, 11265, 10060, 10178, 10030, 10056, 10700, 10856, 11154, 11178, 11423, 11993
Lloyd's	10236, 10180, 10030, 10056
Logik	10236, 10180, 10056
Luxman	10056
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Magnavox	10047, 11454, 10054, 10154, 10000, 10250, 10051, 10180, 10060, 10030, 10171, 10092, 10706, 10802, 11198, 11254, 11365, 11755, 11866, 11963, 11990

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Memorex	10154, 10463, 10180, 10150, 10178, 10030, 10056
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Mintek	11603, 11990
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Motorola	10054, 10051, 10093, 10150
MTC	10180, 10060, 10030, 10092, 10056
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Nikko	10178, 10030, 10092
Nikkodo	10178, 10030, 10092
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Norwood Micro	11286
NTC	10092
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Optimus	10154, 10250, 10093, 10180, 10150, 10178, 10030, 10166, 10056, 10650
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Panasonic	10054, 10000, 10156, 10250, 10051, 10236, 10030, 10650, 11291, 11310, 11410, 11480, 11941
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PCE	10156, 10060
Penney	10047, 10000, 10156, 10250, 10051, 10060, 10178, 10030, 10056, 11347
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Philco	10054, 10463, 10030, 10145
Philips	11454, 10054, 10030, 10171, 10056, 10690, 11154, 11254, 11744, 11867
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RCA	11447, 10047, 10054, 10000, 10051, 10093, 10178, 12002, 11958, 11781, 11547, 11347, 11247, 11147, 11047, 10774, 10679, 10090
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Sanky	10060, 10030
Sansui	10463, 10060, 10030, 11409, 11935
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Sole	10813, 11623
Sony	10017, 10154, 11100, 10000, 10150, 10053, 10834, 11685
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Soyo	11520, 11826
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Squareview	10171
SR2000	10154, 10171
SSS	10180
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Superscan	10093, 10864
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SV2000	10054
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Symphonic	10000, 10180, 10178, 10171
Syntax	11144, 11240, 11331, 11610
Tandy	10093
Tatung	10000, 10051, 11756, 11286
Teac	10154, 10706, 10689
Technics	10054, 10250, 10051
Technovox	10030
Techview	10847, 12004
Techwood	10250, 10051, 10060, 10056
Teco	11040
Teknika	10054, 10463, 10180, 10150, 10060, 10178, 10092, 10056
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Telefunken	10702, 10056
Thomas	10047, 10178, 10056
Thomson	11447, 10047
TMK	10236, 10180, 10178, 10056, 10177
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Tocom	10156
Toshiba	10154, 11256, 10156, 10150, 11265, 10060, 11145, 10145, 10166, 12006, 11935, 11704, 11656, 11635, 11524, 11356, 11164, 11156, 10845, 10832, 10822, 10650
Totevision	10051
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Victor	10053
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Vidtech	10178
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Viking	10060
Viore	11684
Vizio	11756, 11758, 10864, 10885, 11755
Wards	10047, 10054, 10017, 10154, 10000, 10051, 10093, 10236, 10178, 10030, 10166, 10056, 10866, 11156
Waycon	10156
Welton	10178
Westinghouse	10000, 10451, 10885, 10889, 10890, 11282, 11577, 11712
White Westinghouse	10451, 10236, 10463, 10623, 10889
World	10451, 10236, 10463, 10180
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Yorx	10030
Zenith	10047, 10017, 10000, 10093, 10463, 11265, 10812, 10178, 10030, 11145, 10145, 10171, 10092

TV/DVD combination controlled by the DVD

TV/DVD combination controlled by the DVD	
Advent	21016
Akai	20695
Apex Digital	20830
Audiovox	21071, 21121, 21122
Axion	21071
Broksonic	20695
Citizen	20695
Emerson	20675, 21268
ESA	21268
Funai	21268
Go Vision	21071
Hitachi	21247
Insignia	21268
Jensen	21016
Magnavox	21268
Panasonic	21490
Philips	20854, 21260
Prima	21016
RCA	21022
Samsung	20899
Sansui	20695
Sova	21122
Sylvania	20675, 21268
Toshiba	20695

TV/DVD combination controlled by the TV

TV/DVD combination controlled by the TV	
Accurian	11803
Akai	11675, 11935
Audiovox	11937, 11951, 11952
Axion	11937
Broksonic	11935
Citizen	11935
Dynex	11810
Emerson	11394, 11963
ESA	11963
Funai	11963
iLo	11990
Initial	11990
Insignia	11963, 12002
LG	11993
Magnavox	11866, 11963, 11990
Maxent	11714
Mintek	11990
Panasonic	11941
Polaroid	11523, 11766, 12002
RCA	11958, 12002
Sansui	11935
Sova	11952
Sylvania	11394, 11864, 11963
Techview	12004
Toshiba	11524, 11635, 11935, 12006

TV/VCR combination controlled by the TV

TV/VCR combination controlled by the TV	
America Action	10180
Audiovox	10180
Emerson	10236

TV/VCR combination controlled by the VCR

TV/VCR combination controlled by the VCR	
Broksonic	20479, 21479
Citizen	21278
Curtis Mathes	21035
Daewoo	21278
Emerson	20479, 20593, 21278, 21479
Funai	20000
GE	20807, 21035, 21060
GoldStar	21237
Harley Davidson	20000
Hitachi	20000
LG	21037
Lloyd's	20000
Magnasonic	20593, 21278
Magnavox	20000, 20593, 21781
Memorex	20162, 21037, 21162, 21237, 21262
Mitsubishi	20807
Optimus	20162, 20593, 21162, 21262
Orion	20479, 21479
Panasonic	20162, 21035, 21162, 21262
Penney	21035, 21237
Quasar	20162, 21035, 21162
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RCA	20807, 21035, 21060
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Sansui	20000, 20479, 21479
Sears	20000, 21237
Sony	20000, 21232
Sylvania	21781
Symphonic	20000, 20593
Thomas	20000
Toshiba	20845, 21145
Zenith	20000, 20479, 21479

TV/VCR/DVD combination controlled by the DVD

TV/VCR/DVD combination controlled by the DVD	
Akai	20899
Broksonic	20868
Emerson	20821
ESA	20821
Funai	21334
Magnavox	20821
Panasonic	21362, 21462
RCA	21132
Sharp	20630
Superscan	20821
Sylvania	20821
Symphonic	20821
Toshiba	21045

TV/VCR/DVD combination controlled by the VCR

TV/VCR/DVD combination controlled by the VCR	
Sharp	20807

VCRs

VCRs	
A-Mark	20037, 20000, 20046
ABS	21972
Accurian	20000
Admiral	20060, 20048, 20039, 20209, 20479
Adventura	20037, 20000
Aiwa	20037, 20000
Alba	20209
Alienware	21972
Allegro	20039
American High	20035, 20081
Amstrad	20000
Astra	20035
Audiovox	20037, 20038
Avis	20000
Bell & Howell	20035, 20048, 20039, 20000, 20046, 20479
Broksonic	20184, 20121, 20209, 20479, 21479
Calix	20037
Candle	20037, 20038
Canon	20035
Carver	20035, 20081
Citizen	20035, 20037, 20000, 20209, 20479, 21278
Classic	20037
Colortyme	20060, 20035, 20045
Colt	20000
Craig	20037
Criterion	20000
Crosley	20035, 20081, 20000, 20149
Curtis Mathes	20060, 20035, 20162, 20000, 21035
CyberPower	21972
Daewoo	20037, 20045, 20046, 21278
Daytron	20037
Dell	21972
Denon	20081, 20042
DirecTV	20739
Dual	20000
Durabrand	20039, 20038
Dynatech	20000
Electrohome	20060, 20037, 20000, 20043, 20209
Electroponic	20037
Emerald	20184, 20121
Emerex	20032
Emerson	20037, 20184, 20000, 20121, 20043, 20209, 20479, 20593, 21278, 21479, 21593
Fisher	20039, 20000, 20046
Fuji	20035, 20033
Fujitsu	20000
Funai	20037, 20000, 20593, 21593
Garrard	20000
Gateway	21972
GE	20060, 20035, 20048, 20000, 20149, 20807, 21035, 21060
Gemini	20060
Genexxa	20037, 20000

VCRs	
Go Video	20614
GoldStar	20035, 20037, 20039, 20000, 20038, 21237
Goodmans	20037, 20081, 20000
Gradiente	20000
Granada	20081, 20042
Grundig	20081
Harley Davidson	20000
Harman/Kardon	20081, 20038
Headquarter	20046
Hewlett Packard	21972
HI-Q 20035,	20000
Hitachi	20035, 20037, 20045, 20000, 20042, 20089
Howard Computers	21972
HP	21972
Hughes Network Systems	20042, 20739
Humax	20739
Hush	21972
Hytek	20000
iBUYPOWER	21972
Instant Replay	20035
Jensen	20067
JVC	20067, 21162
KEC	20037
Kenwood	20067, 20038, 20046
Kodak	20035, 20037
KTV	20000
LG	20037, 20038, 21037
Linksys	21972
Lloyd's	20000, 20038
Loewe	20081
Logik	20000
Luxor	20046
LXI	20037, 20000, 20042, 20067
Magnasonic	20037, 20000, 20593, 21278
Magnavox	20035, 20037, 20048, 20039, 20081, 20000, 20149, 20563, 20593, 20618, 21593, 21781
Marantz	20035, 20081, 20038
Marta	20037
Matsui	20037, 20209
Matsushita	20035, 20162, 20081, 21162
Media Center PC	21972
MEI	20035
Memorex	20035, 20162, 20037, 20048, 20039, 20000, 20209, 20046, 20479, 21037, 21162, 21237, 21262
Metz	20037
MGA	20060, 20043
Microsoft	21972
Mind	21972
Minolta	20042
Mitsubishi	20060, 20048, 20000, 20042, 20067, 20043, 20807
Motorola	20035, 20048
MTC	20000
MTX	20000
Multitech	20039, 20000
NEC	20067, 20038
Nikko	20037

VCRs	
Nikkodo	20037
Niveus Media	21972
Northgate	21972
Olympus	20035, 20162
Optimus	21062, 20035, 20162, 20037, 20048, 20000, 20593, 21162, 21262
Orion	20184, 20000, 20121, 20209, 20479, 21479
Panama	20035
Panasonic	21062, 20035, 20162, 20000, 20225, 20614, 20616, 21035, 21162, 21262 Penney 20035, 20162, 20037, 20081, 20000, 20042, 20067, 20038, 21035, 21237
Pentax	20042
Philco	20035, 20081, 20000, 20209, 20479
Philips	20035, 20162, 20048, 20081, 20045, 20000, 20209, 20616, 20618, 20739, 21081, 21181
Pilot	20037
Pioneer	20162, 20081, 20042, 20067
Polk Audio	20081
Presidian	21593
Proscan	20060, 21060
Protec	20000
Pulsar	20039
Quarter	20046
Quartz	20035, 20046
Quasar	20035, 20162, 21035, 21162
RadioShack	20035, 20162, 20037, 20048, 20000, 20046, 21037, 21162
Radix	20037
Randex	20037
RCA	20060, 20035, 20048, 20045, 20000, 20042, 20149, 20807, 20880, 21035, 21060
Realistic	20035, 20162, 20037, 20048, 20000, 20121, 20046, 21162
ReplayTV	20614, 20616
Ricavision	21972
Runco	20039
Samsung	20060, 20045, 20000, 20038, 20739, 21014
Sanky	20048, 20039
Sansui	20000, 20067, 20209, 20479, 21479
Sanyo	20000, 20046, 20479
Scott	20184, 20045, 20121, 20043
Sears	20060, 20035, 20162, 20037, 20048, 20039, 20033, 20045, 20000, 20042, 20067, 20043, 20209, 20046, 21237
Sharp	20048, 20032, 20000, 20807, 20848
Shintom	20039, 20000
Siemens	20037
Signature	20060, 20035, 20037, 20048, 20000, 20149, 20046, 20479
Singer	20037
Sonic Blue	20614, 20616
Sonographe	20046
Sony	20035, 20032, 20033, 20000, 20067, 20046, 20636, 21032, 21232, 21972
Soundmaster	20000
Stack 9	21972
STS	20042
SV2000	20000
SVA	20000

VCRs	
Sylvania	20035, 20081, 20000, 20043, 20593, 21593, 21781
Symphonic	20000, 20593, 21593
Systemax	21972
Tagar Systems	21972
Tandy	20000
Tashiko	20037
Tatung	20048, 20081, 20000, 20067
Teac	20000, 20067
Technics	20035, 20162, 20037, 20000
Teknika	20035, 20037, 20000
Tevion	20479
Thomas	20000
Thomson	20060
Tivo	20618, 20636, 20739, 21996
TMK	20000
TNIX	20037
Toshiba	20045, 20000, 20043, 20209, 20845, 21008, 21145, 21972, 21996
Totevision	20037
Touch	21972
Trix	20037
Ultra	20045
Vector	20045
Vector Research	20184, 20038
Victor	20067
Video Concepts	20045
Videomagic	20037
Videosonic	20000
Viewsonic	21972
Villain	20000
Voodoo	21972
Wards	20060, 20035, 20037, 20048, 20081, 20033, 20045, 20000, 20042, 20043, 20038, 20149, 20046, 20479
Wharfedale	20593
White Westinghouse	20000, 20209, 20479
World	20209, 20479
XR-1000	20035, 20000
Yamaha	20038
Zenith	20037, 20039, 20033, 20000, 20209, 20479, 21479
ZT Group	21972

Video Accessories	
Gateway	01272
Hewlett Packard	01272, 01267
Howard Computers	01272
HP	01272, 01267
Hush	01272
iBUYPOWER	01272
Insignia	01415
KoolConnect	01481
LG	01415
Linksys	01272, 01365
Media	Center PC 01272
Microsoft	01272, 02049
Mind	01272
Motorola	00858, 01363, 01998
Netgear	02036
Niveus Media	01272
Northgate	01272
Panasonic	01120
Pioneer	01010
Ricavision	01272
Roku	01486
Samsung	01190, 01490
Scientific Atlanta	00858
Sensory Science	01126
Sharp	01010
SMC	01456
Sony	01272, 01324, 01364
Stack 9	01272
SureWest	01481
Sylvania	01563
Systemax	01272
Tagar Systems	01272
Toshiba	01272
Touch	01272
Viewsonic	01272, 01329
Vizio	01126
Voodoo	01272
VUDU	02298
Xbox	02049
Zenith	01415
ZT Group	01272

Video Accessories

Video Accessories	
2Wire	02045
ABS	01272
Access HD	02185
Accurian	01653
Alienware	01272
Amino	01481
AT&T	00858, 02045
Buffalo	01739
CASTi	02305
CyberPower	01272
D-Link	01554, 01731, 02186
Digital Stream	02303
Epson	01563

Legal notices

FCC Part 15

This device complies with Part 15 of the FCC Rules. Operation of this product is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply within the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC warning

Changes or modifications not expressly approved by the party responsible for compliance with the FCC Rules could void the user's authority to operate this equipment.

Cables

Connections to this device must be made with shielded cables with metallic RF/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Canada ICES-003 statement

This Class B digital apparatus complies with Canadian ICES-003. Standard Television Receiving Apparatus — Appareil de réception télévision ordinaire, Canada BETS-7 / NTMR-7

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OPEN SOURCE SOFTWARE

For OPEN SOURCE SOFTWARE information, refer to the System information section in the on-screen display (OSD) on the TV. If you require additional information or you wish to receive the complete corresponding GPL or LGPL licensed source code, please call the Insignia support line at 1-877-467-4289. This source code is available for a period of three (3) years from the date of the distribution of this product by Insignia.

One-year limited warranty - Insignia Televisions

Definitions:

Insignia Products ("Insignia") warrants to you, the original purchaser of this new Insignia-branded television ("Product"), that the Product shall be free of defects in the original manufacturer of the material or workmanship for a period of one (1) year from the date of your purchase of the Product ("Warranty Period"). For this warranty to apply, your Product must be purchased in the United States or Canada from a Best Buy or Future Shop authorized dealer of Insignia brand products only that are packaged with this warranty statement.

How long does the coverage last?

The Warranty Period lasts for 1 year (365 days) from the date you purchased the Product. Your purchase date is printed on the receipt you received with the Product.

What does this warranty cover?

During the Warranty Period, if the original manufacture of the material or workmanship of the Product is determined to be defective by an authorized Insignia repair center or store personnel, Insignia will (at its sole option): (1) repair the Product with new or rebuilt parts; or (2) replace the Product at no charge with new or rebuilt comparable products or parts. Products and parts replaced under this warranty become the property of Insignia and are not returned to you. If service of Products or parts are required after the Warranty Period expires, you must pay all labor and parts charges. This warranty lasts as long as you own your Insignia Product during the Warranty Period. Warranty coverage terminates if you sell or otherwise transfer the Product.

How to obtain warranty service?

If you purchased the Product at a Best Buy or Future Shop retail store location and your television Product has a screen size of less than 42 inches, please take your original receipt and the Product to any Best Buy or Future Shop store. Make sure that you place the Product in its original packaging or packaging that provides the same amount of protection as the original packaging. If you purchased the Product from a Best Buy or Future Shop online web site, mail your original receipt and the Product to the address listed on the web site. Make sure that you put the Product in its original packaging or packaging that provides the same amount of protection as the original packaging.

To obtain in-home warranty service for a television with a screen 42 inches or larger, in the United States call 1-888-BESTBUY, Canada call 1-866-BESTBUY for Future Shop call 1-800-663-2275. Call agents will diagnose and correct the issue over the phone or will have a Insignia-approved repair technician dispatched to your home.

Where is the warranty valid?

This warranty is valid only in the United States and Canada at Best Buy or Future Shop branded retail stores or websites to the original purchaser of the product in the county where the original purchase was made.

What does the warranty not cover?

This warranty does not cover:

- Customer instruction/education
- Installation
- Set up adjustments
- Cosmetic damage
- Damage due to acts of God, such as power surges
- Accident(s)
- Misuse
- Abuse
- Negligence
- Commercial purposes/use, including but not limited to use in a place of business or in communal areas of a multiple dwelling condominium or apartment complex, or otherwise used in a place of other than a private home.
- Modification of any part of the Product, including the antenna
- Plasma display panel damaged by static (non-moving) images applied for lengthy periods (burn-in).
- Damage due to incorrect operation or maintenance

- Connection to an incorrect voltage or power supply
- Attempted repair by any person not authorized by Insignia to service the Product
- Products sold "as is" or "with all faults"
- Consumables, including but not limited to batteries (i.e. AA, AAA, C etc.)
- Products where the factory applied serial number has been altered or removed
- Loss or Theft of this product or any part of the product
- Up to three (3) pixel failures (dots that are dark or incorrectly illuminated) grouped in an area smaller than one tenth (1/10) of the display size or up to five (5) pixel failures throughout the display. (Pixel based displays may contain a limited number of pixels that may not function normally.)
- Failures or Damage caused by any contact including but not limited to liquids, gels or pastes.

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Contact Insignia:

For customer service please call 1-877-467-4289

www.insigniaproducts.com

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